ORDER NO. VRD0206029C2

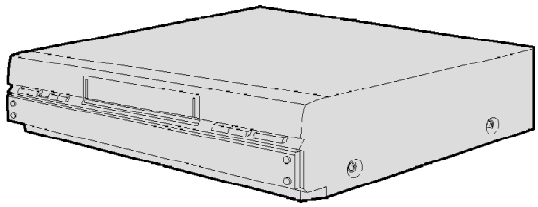
Service Manual

Video Cassette Recorder

Panasonic S-VHS VHS PAL 625 Hi-Fi

NV-HS880EG / NV-HS880B / NV-HS880EC / NV-HS880EE

Z-MECHANISM



SPECIFICATIONS

SPECIFICATIONS

ITEM	SPECIFICATION		ITEM	SPECIFICATION
POWER	SOURCE: 220-240 V AC 50/60 Hz		VIDEO	OUTPUT: EURO AV (AV1/AV2) Connector (21 pin x 2) 1.0 Vp-p, 75 Ω terminated S-VIDEO OUT Connector (S4P) 1.0 Vp-p, 75 Ω terminated VIDEO OUT Connector (Phono type) 1.0 Vp-p, 75 Ω terminated
	CONSUMPTION: 21 watts COMSUMPTION WHEN IN STANDBY MODE: Approx. 3W (NV-HS880EG/EC/EE)			
RECORDING SYSTEM	2 rotary heads, helical scanning system		AUDIO	HEAD: 1 Stationary head (Normal-mono only) 2 channels (Hi-Fi Sound-Stereo)
TV TUNER SYSTEM	PAL			INPUT: EURO AV (AV1/AV2) Connector (21 pin x 2) -6dBV (500 mV), More than 10 kΩ AUDIO IN (AV3:FRONT) Connector (Phono type) -6dBV (500 mV), More than 10 kΩ
	NV-HS880EG/EC	VHF: CHE2-CHE12 CHA-CHH2 [ITALY] (PAL/SECAM B) UHF: CH21-CH69 (PAL/SECAM G) CATV: CHS01-CHS41 (PAL/SECAM B)		OUTPUT: AUDIO OUT Connector (Phono type) -6 dBV (500mV), Less than 1kΩ EURO AV (AV1/AV2) Connector (21 pin x 2) -6 dBV (500mV), Less than 1kΩ
	NV-HS880B	UHF: CH21-CH68 (PAL I)	TAPE FORMAT	S-VHS/VHS Cassette Tape (Tape width 12.7 mm)
	NV-HS880EE	VHF: CHE2-CHE12 (PAL/SECAM B) CHR1-CHR12 (SECAM D) UHF: CH21-CH69 (PAL/SECAM G, SECAM K, PAL I) CATV: CHS01-CHS41 (PAL/SECAM B) 44MHz-470MHz (SECAM D)	TAPE SPEED	SP: 23.39 mm/s LP: 11.695 mm/s EP: 7.796 mm/s Record/Playback Time: SP: 4 hours with 240 min. type tape LP: 8 hours with 240 min. type tape EP: 12 hours with 240 min. type tape FF/REW Time: 60 sec. with 180 min. type tape
RF OUT SYSTEM	NV-HS880EG/EC	UHF: CH21-CH69 (PAL/SECAM G) 71 ± 3 dBμ, 75 Ω close		
	NV-HS880B	UHF: CH21-CH68 (PAL I) 71 ± 3 dBμ, 75 Ω close		
	NV-HS880EE	UHF: CH21-CH69 (PAL/SECAM G, SECAM K, PAL I) 71 ± 3 dBμ, 75 Ω close		
VIDEO	HEADS: 4 rotary heads 1 pair for recording and playback (L R heads) 1 pair for trick play (L'-R' heads)		OPERATING TEMPERATURE	5°C - 40°C
	INPUT: EURO AV (AV1/AV2) Connector (21 pin x 2) 1.0 Vp-p, 75 Ω terminated S-VIDEO IN (AV3:FRONT) Connector (S4P) 1.0 Vp-p, 75 Ω terminated VIDEO IN (AV3:FRONT) Connector (Phono type) 1.0 Vp-p, 75 Ω terminated		OPERATING HUMIDITY	35% - 80%
			DIMENSIONS	430 (W)×87(H)×282(D) mm
			WEIGHT	3.5 kg
			STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. AC Mains Lead 1 pc. Infra-red Remote Controller

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. INTRODUCTION

This service manual contains technical information which will allow service personnel to understand and service this model.
If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

Note:

1. **Adjustment procedures, Disassembly Procedures and Assembly Procedures for Mechanism Chassis are separate volume from this service manual. / Please refer to the service manual for Z-Mechanism Chassis. (Order No. VRD9802005C2)**
2. **The Model No. is indicated on the Schematic Diagram and Circuit Board Diagrams as follows.**

Model No.	Indication Mark
NV-HS880EG	(EG)
NV-HS880B	(B)
NV-HS880EC	(EC)
NV-HS880EE	(EE)

2. GENERAL DESCRIPTIONS

2.1. SERVICE CAUTION

2.1.1. REPLACING IC6002/EEPROM

When the EEPROM: IC6002 is replaced, applicable model code, option code, tuning channel data and electrical adjustment data will not be available.
Therefore, enter and/or adjust the necessary data after replacing IC6002 by referring following procedure.

STEP1.REPLACE THE IC6002

1. **Take a note that stored TV broadcast channels.**
2. **Remove the C.B.A. with Mechanism unit by referring the Disassembly procedure.**

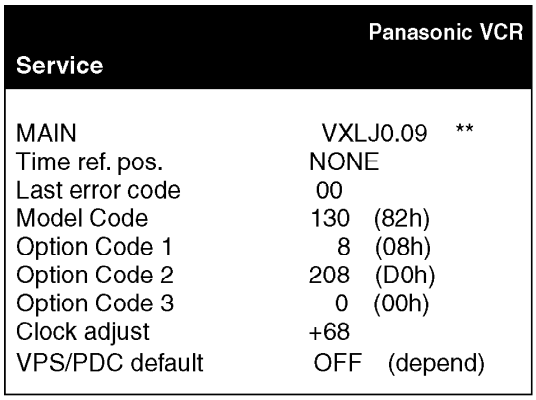
3. Disconnect the AC plug and replace the IC6002.

STEP2.INPUT THE MODEL & OPTION CODE

1. Set up the applicable model code and option code by ordering the following table.

PROCEDURE	F.I.P. DISPLAY
Turn on the Service Mode **1.Press the FF key and the EJECT key simultaneously for more than 3 seconds.**	
Activate the Service Mode 2 **2.While keep pressing FF key, press the EJECT key in twice.**	
Activate the Entering Mode. **3.Press the EJECT key for more than 3 seconds.**	
Set the Mode 2. **4.Press the CH UP key in twice.**	
Display the Setting Code. **5.Press the POWER Button to turn the power on.**	 **(Colon starts flashing)**
Enter the Model and Option Code. **6.Service Screen is displayed on the monitor.** **7.Set the applicable Model and Option code by using REW, PLAY, STOP and FF keys on theRemote Controller. (See Fig.S1 & S2)**	
Exit from Service Mode. **8.Press the POWER Button to turn the power off.** **9. Press FF and EJECT keys simultaneously in 6 times.**	 **(Normal Indication)**

Fig.S1 Service Secreen (sample)



Model No.	Model Code	Option Code 1	Option Code 2	Option Code 3
NV-HS880EG	161 (A1h)	8 (08h)	240 (F0h)	0 (00h)
NV-HS880B	163 (A3h)	40 (28h)	240 (F0h)	0 (00h)
NV-HS880EC	162 (A2h)	8 (08h)	240 (F0h)	0 (00h)
NV-HS880EE	166 (A6h)	8 (08h)	242 (F2h)	0 (00h)

Fig. S2 Model Code & Option Code

NOTE:

1. **Tune the TV Broadcasting channels by referring the memo.**
2. **Since all electrical adjustment data is still not available, perform the Electrical Adjustment continuously.**

WHEN REPLACING THE MAIN C.B.A.

Since the user's Tape Library data is stored in IC6002;EEPROM, swap the EEPROM taking from Original Main C.B.A. and mount it onto the New Main C.B.A. to keep maintain the user's Library Data by ordering the following procedure.

1. **Take the IC6002; EEPROM from the new Main C.B.A. (to be used as replacement.) and keep it aside.**
2. **Take the IC6002; EEPROM from the original Main C.B.A. (to be replaced).**
3. **Mount the EEPROM being taken from original C.B.A. to the new**

Main C.B.A.(to be used as replacement.)

4. Install the new Main C.B.A. to the VCR.

When ordering the above procedure, setting of the model code, option code, tuning channel can be skipped. / However, all electrical adjustment data is unique value in accordance with a deck, perform the Electrical Adjustment continuously.

2.1.2. CYLINDER UNIT REPLACEMENT

1. CYLINDER UNIT REPLACEMENT

A. Remove the mechanism unit from MAIN C.B.A./Chassis by referring "SECTION 2. Disassembly Procedure".

B. Remove the 3 screws (A) of the CYLINDER UNIT with a screw driver.

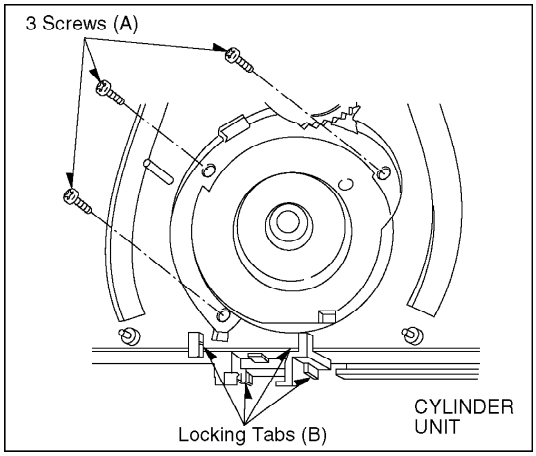
C. Unlock the 4 locking tabs (B) and disconnect the Cylinder fiexible card from the FPC Holder.

D. Remove the CYLINDER UNIT.

CAUTION:

Handle the Cylinder fiexible card with care. When it damaged, you should replace whole Cylinder unit.

Fig. S3



2. UPPER CYLINDER DISASSEMBLY

A. Remove 2 screws (A).

B. Remove the Cylinder Stator Unit.

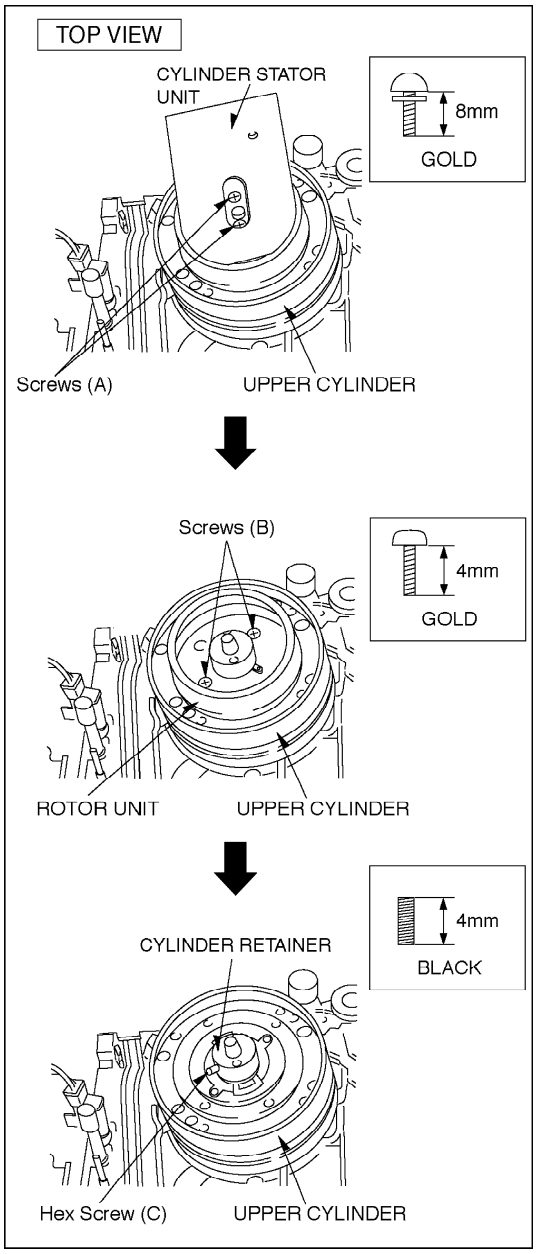
C. Remove 2 screws (B).

D. Remove the Cylinder Rotor Unit.

E. Loose Hex screw (C) (1.5 mm) and remove the CYLINDER RETAINER.

F. Remove the Upper Cylinder.

Fig. S4



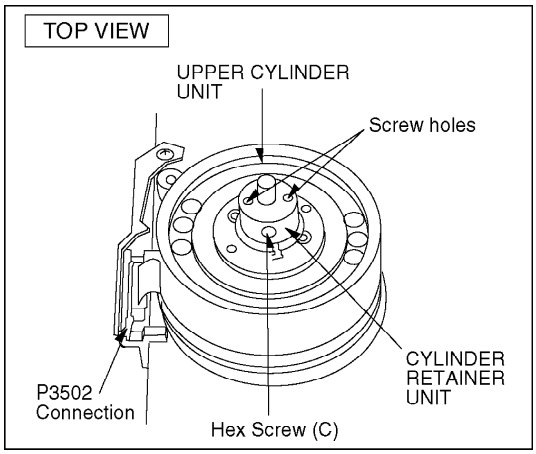
3. UPPER CYLINDER ASSEMBLY

When reassembling, perform the steps in the reverse order.

Notes:

1. **Install the Cylinder Retainer so that the 2 holes on top of the Cylinder Retainer are at right angles with the P3502 Connection.**
2. **Tighten the Hex screw (C) (1.5 mm) while pressing down on top of the Cylinder Retainer.**

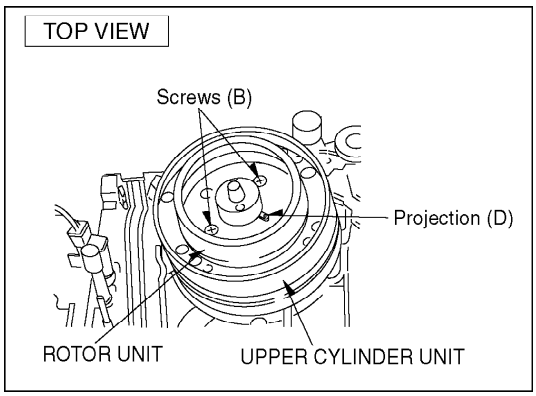
Fig. S5



3. Install the Cylinder Rotor Unit so that the inner hole of the Cylinder Rotor Unit fits to the small projection (D) on top of the Upper Cylinder.

4. Tighten 2 screws (B).

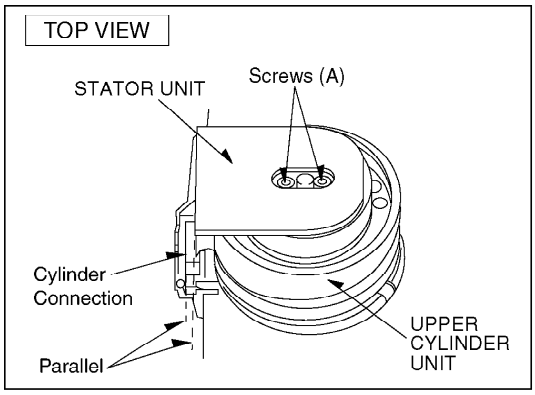
Fig. S6



5. install the Cylinder Stator Unit.

6. Tighten 2 screws (A).

Fig. S7



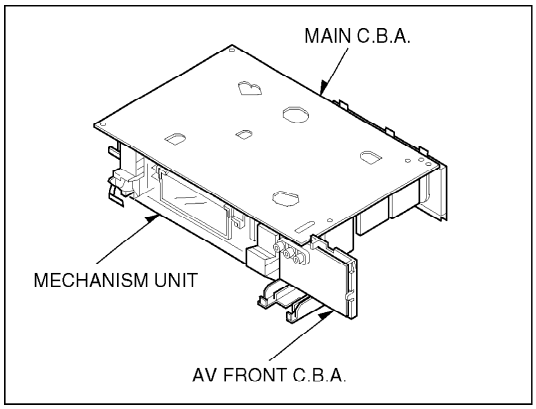
7. Confirm the PG SHIFTER ADJUSTMENT with the alignment tape

(PAL: VFJ8125H3F) and adjust it if necessary.

2.1.3. CHECKING OF MAIN C.B.A.

When servicing the MAIN C.B.A., take out the MAIN C.B.A. and mechanism from the frame and turn over.

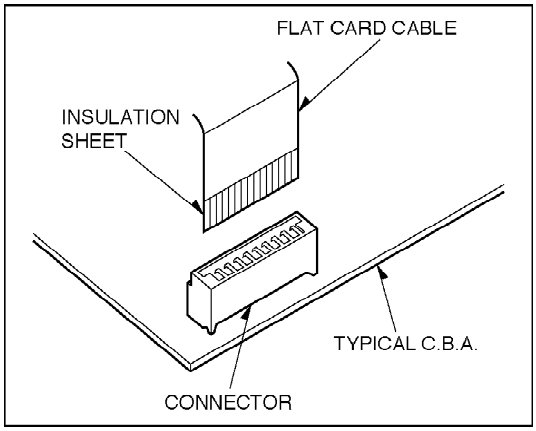
Fig. S8



2.1.4. FLAT CARD CABLE INSTALLATION

When installing the Flat Card Cable on the connector, install the Flat Card Cable with the cable contacts facing the connector contacts.

Fig. S9



2.2. REMOVAL OF CASSETTE TAPE

There are 2 ways to remove a cassette tape.

1. Service Information Display Operation

A. Press the FF and EJECT keys simultaneosly for 3 seconds and set the Service Mode 7.

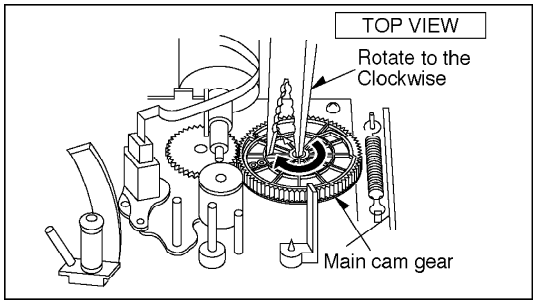
B. Press STOP key in order to rotate the Loading Motor for unloading operation. (Pay an attention of tape slack)

2. Manual Operation

A. Disconnect the AC Mains Lead and remove the Top Panel.

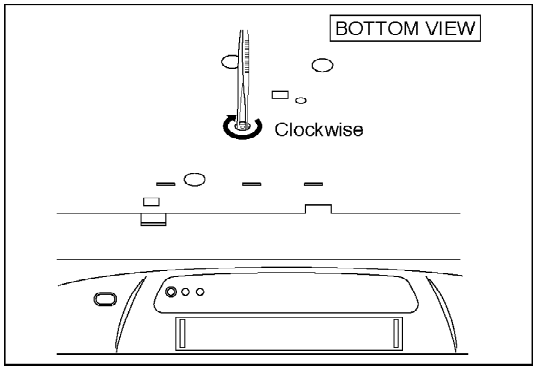
B. Rotate the Main Cam Gear clockwise until the Loading Posts move to fully unloaded position as shown in Fig. S10. (Tape is remaining)

Fig. S10



C. Rotate the Capstan Motor clockwise from the bottom side to take up the tape.

Fig. S11



D. Rotate the Main Cam Gear clockwise until the cassette tape is ejected.

2.3. INTRODUCTION OF VIDEO HEAD CLEANING CASSETTE / (POLISHING TYPE)

1. **We are pleased to introduce Panasonic Video Head Cleaning Cassette, VFK0923FT [for service purposes] and VFK0923FSE [for end users] for all VHS/SVHS VCP and VCR.**
2. **These cleaning cassettes are exclusive removing the hard and sticky clogging on video heads.**
3. **These improve the efficiency of video head cleaning service and shortening cleaning time for end users.**

VFK0923FT (For Service usage)	
Type of Cassette	**Full VHS Cassette**
Cleaning Time	**10 Seconds/Time**
Tape Length	**20 m**
Usability in a Path	**180 Times**

VFK0823FSE (For end users)	
Type of Cassette	**Full VHS Cassette**
Cleaning Time	**10 Seconds/Time**
Tape Length	**3.34 m**
Usability in a Path	**30 Times**

VFK0823FSE (For end users)

Note:

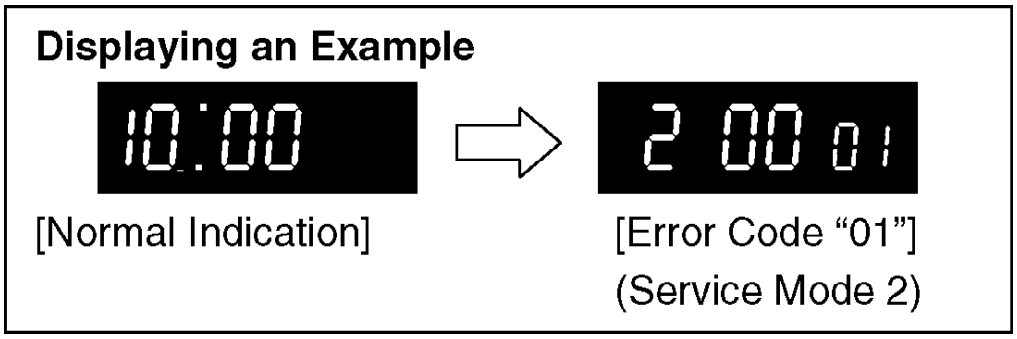
The tape material itself is the same in both types.

2.4. SELF-DIAGNOSIS RESULT DISPLAY

The "SELF-DIAGNOSIS RESULT DISPLAY & MEMORY function is built in this VTR.
It means that when the VCR detects undesirable condition, it can be displayed a “Error code (Two numbers from the left)” with Service Mode 2.
Since the "Error code" is stored in the EEPROM, it can be displayed although after disconnected the AC leads. It can be displayed with Service Mode 2.
(If a second error had been detected, only the most recent error can be displayed.)
For more details, refer to the Service Manual for Z-Mechanism Chassis Order number VRD9802005C2.

NOTE:

To erase the memorized “ERROR” code, press the FF and EJECT keys simultaneously for more than 5 seconds.



INDICATION	CAUSE	REMEDY/CHECK
01	After cylinder lock is detected, the cylinder does not start rotating again even after tape unloading.	Check the cylinder motor drive circu
02	Cassette tape is not wound up during the tape unloading except EJECT mode.	Check the capstan motor drive circu
03	Mechanism locks during mode transition except EJECT mode.	1. Check the loading motor drive circuit. 2. Check the mechanism phase alignment. 3. Check the mode switch.
04	Mechanism locks during tape unloading.	1. Check the loading motor drive circuit. 2. Check the mechanism phase alignment.
06	Mechanism locks after tape unloading in EJECT mode.	1. Check the loading motor drive circuit. 2. Check the mechanism phase alignment for cass
07	During recording mode, recording signal is less than the normal condition.	Protection of the over-current flowin transistor which produces the powe for recording mode.
08	Recording circuit works except recording mode.	Check the recording circuit.
16	Cylinder lock detection.	Check the cylinder unit and the cylir drive circuit.
17	Supply reel mechanism lock detection	Check the supply reel mechanism ar supply reel circuit.
18	Take-up reel mechanism lock detection	Check the Take-up reel mechanism a Take-up reel circuit.
2*	PG shifter automatic adjustment error.	Check the servo/system control circ cylinder unit.

Fig. T1 Self-Test indication Display

2.5. CAUTION FOR AC MAINS LEAD (NV-HS880B)

3. ADJUSTMENT PROCEDURES

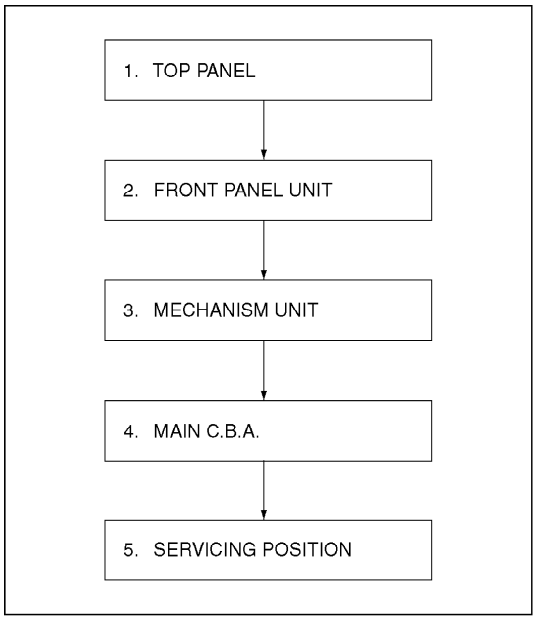
3.1. DISASSEMBLY METHOD

3.1.1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.

When reassembling, perform the steps in the reverse order.

Fig. D1

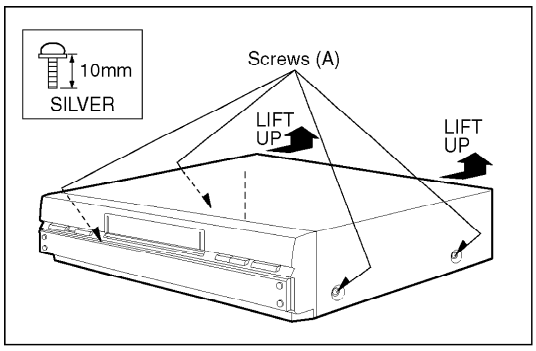


3.1.2. DETAIL OF DISASSEMBLY METHOD

1. REMOVAL OF THE TOP PANEL

Remove	**4 Screws (A)**

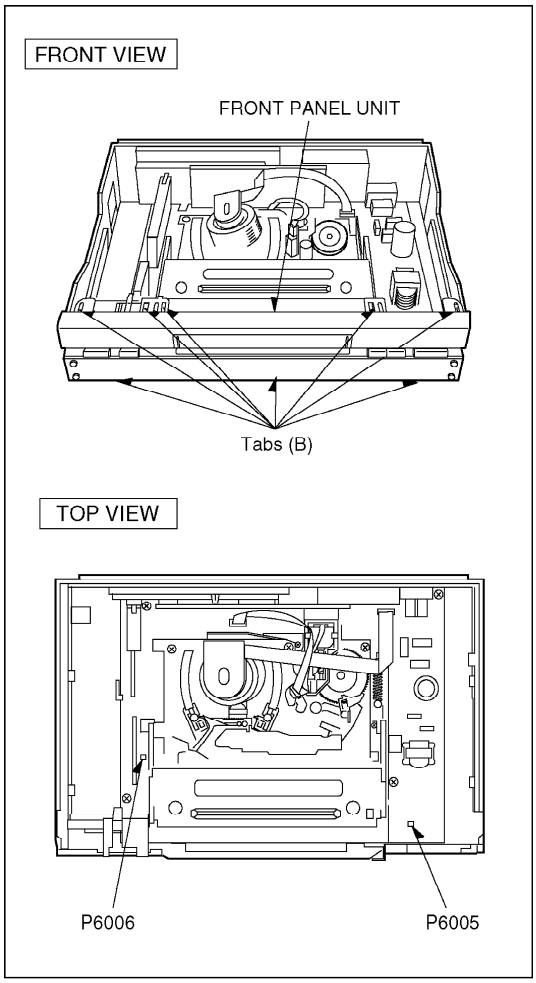
Fig.D2



2. REMOVAL OF THE FRONT PANEL UNIT

Unlock	**8 Tabs (B)**
Disconnect	**P6005**
Disconnect	**P6006**

Fig. D3



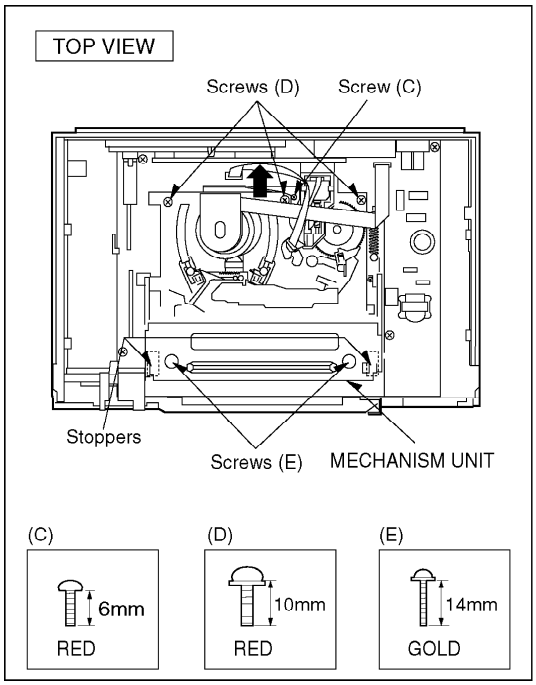
3. REMOVAL OF THE MECHANISM UNIT

Remove	**Screw (C)**
Remove	**3 Screws (D)**
Remove	**2 Screws (E)**

Note:

1. **Keep pressing 2 stoppers on Cassette Holder Plate and Press Cassette Holder Plate to the rear.**
2. **Remove the Mechanism Unit after bend the Cylinder Shield in the direction of the arrow.**

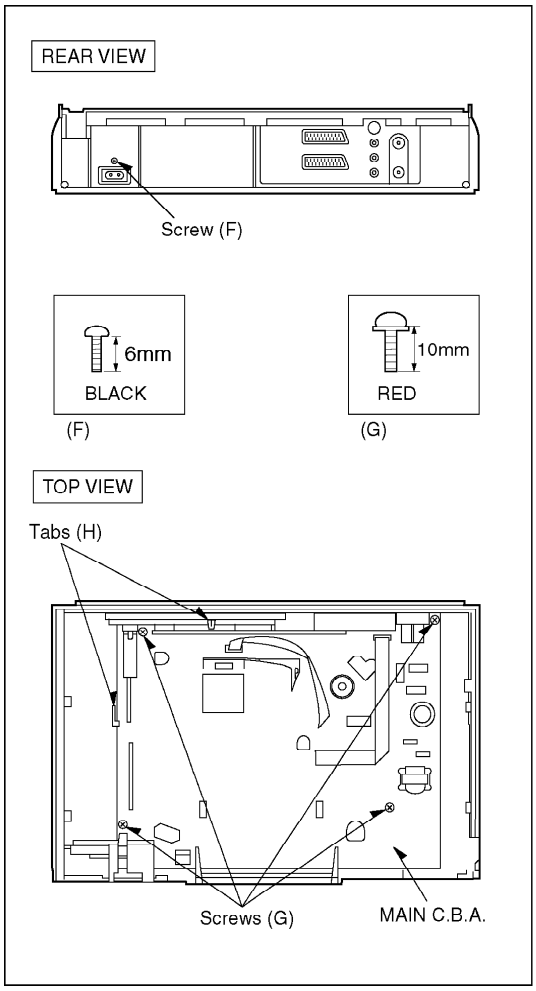
Fig. D4



4. REMOVAL OF THE MAIN C.B.A.

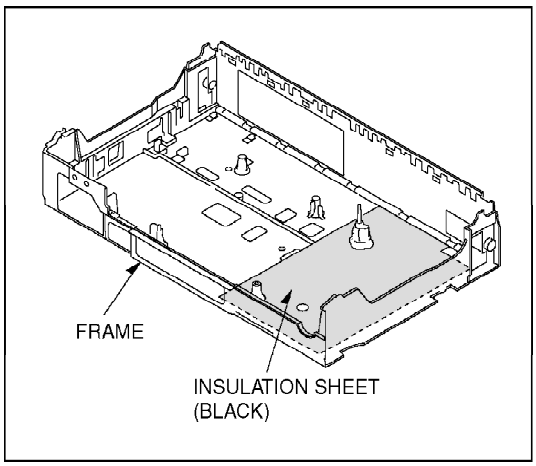
Remove	**Screw (F)**
Remove	**4 Screws (G)**
Unlock	**2 Tabs (H)**

Fig. D5



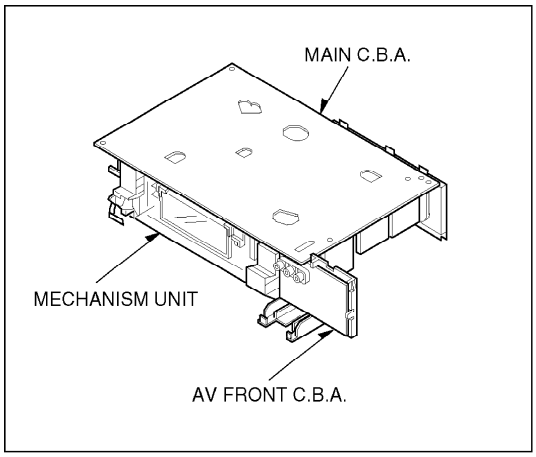
NOTE:
Before mounting the MAIN C.B.A. onto the frame, be sure to confirm that the insulation sheet is mounted on the frame as shown in Fig. D6.

Fig. D6



5. SERVICING POSITION

Fig. D7



3.2. MECHANICAL ADJUSTMENT PROCEDURES

Refer to the Service Manual for Z-Mechanism Chassis. / (Order No. VRD9802005C2)

3.3. ELECTRICAL ADJUSTMENT PROCEDURES

3.3.1. TEST EQUIPMENT

The following equipments are required for Electrical Adjustments.

1. Dual-Trace Oscilloscope
   - Voltage Range: 0.005-5V/div
   - Frequency Range: DC-35MHz
   - Probes: 10:1 / 1:1
2. Frequency Counter
   - Frequency Range: 0-10MHz
   - Probes: 1:1
3. Universal Counter
4. Digital Volt Meter (D.V.M.)
5. Video Sweep Generator
6. Sinewave Generator
7. Video Pattern Generator
8. Monitor TV
9. DC Power Supply
10. VHS/S-VHS Blank Tape
11. VHS Alignment Tape

- Parts No.: VFJ8125H3F(PAL)

3.3.2. VCR SETTING

When no indication in the procedure, set each selector as follows.

1. TAPE SPEED: SP

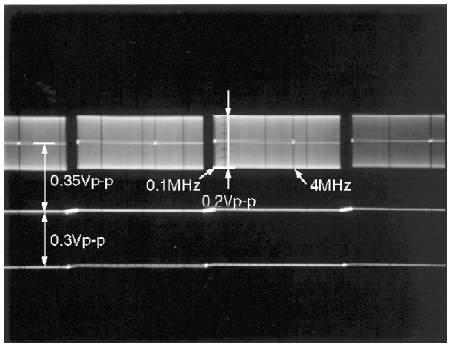
2. CHANNEL: AV1/AV2/AV3
(Set to signal input terminal number)

3. S-VHS SW: ON

3.3.3. ADJUSTMENTS

ITEM	TP	ADJ.	MODE	INPUT	TAPE	M. EQ.	SPEC	REMARKS
PG SHIFTER ADJUSTMENT	---	---	PLAYBACK	---	ALIGNMENT TAPE (PAL)	---	---	Refer to procedure as shown in Fig. E5.
S-VHS FREQUENCY RESPONSE ADJUSTMENT	VIDEO OUT (TP3021)	---	SP/LP PLAYBACK (SELF-REC)	VIDEO SWEEP (See Fig. E1)	S-VHS BLANK TAPE	OSCILLO SCOPE/ VIDEO SWEEP GENERATOR	SP:-4.5+-1(dB) (50~70%) LP:-6.0+-1(dB) (40~60%) (See Fig.E2)	Refer to the procedure as shown in Fig. E6.
VHS FREQUENCY RESPONSE ADJUSTMENT	VIDEO OUT (TP3002)	---	SP/LP PLAYBACK (SELF-REC)	VIDEO SWEEP (See Fig. E3)	VHS BLANK TAPE	OSCILLO SCOPE/ VIDEO SWEEP GENERATOR	SP: 0+-1 (dB) (90~110%) LP: 0+-1 (dB) (90~110%) (See Fig. E4)	Refer to the procedure as shown in Fig. E7.

Fig.E1



CONDITION: BURST SIGNAL OFF / 75ohm TERMINATED

Fig.E2

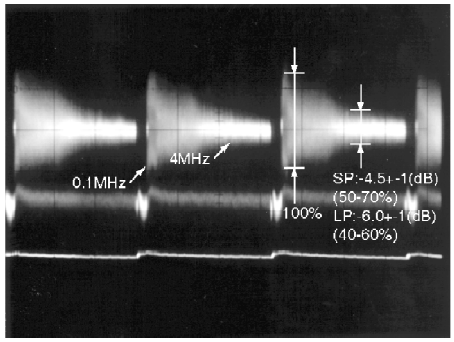
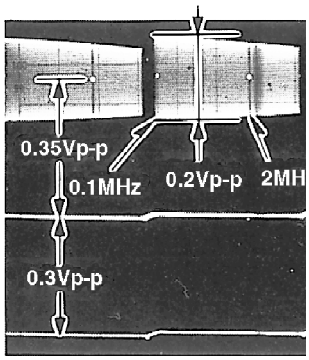
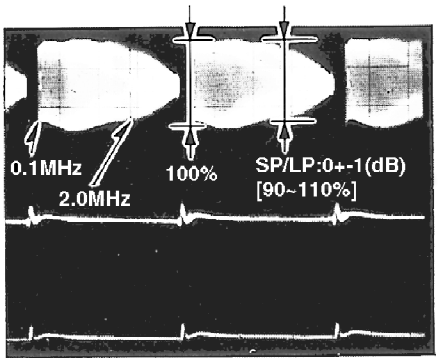


Fig.E3



CONDITION: BURST SIG
75ohm TERMI

Fig.E4



3.3.4. PG SHIFTER ADJUSTMENT / (AUTOMATIC)

PROCEDURES	FIP DISPLAY
Press the FF and EJECT Keys simultaneously for 3 seconds.	
Press the FF and EJECT Keys simultaneously twice.	
Press the EJECT key for 3 seconds.	
Press the CH UP key once.	
Insert the Alignment cassette tape. (PAL:VFJ8125H3F)	
When the sequence of the automatical adjustment has been terminated, the following action has been made. *SUCCEED: The cassette tape is ejected. *ERROR : The "F2"is displayed on the FIP. (Check the Servo/Syscon circuit and Cylinder unit.)	
Release the Service mode by pressing the EJECT and FF keys simultaneously in 6 times until the FIP becomes normal indication.	

Fig. E5

3.3.5. S-VHS VIDEO FREQUENCY RESPONSE ADJUSTMENT

PROCEDURES	FIP DISPLAY
Set the S-VHS SW to ON. / Insert the S-VHS BLANK TAPE. / Input the Video sweep signal (See Fig. E1) to AV3 (S-VIDEO IN) and record it in SP and LP.	
Press the FF and EJECT Keys simultaneously for 3 seconds.	
Press the FF and EJECT Keys simultaneously twice.	
Press the EJECT key for 3 seconds.	
Press the CH UP and/or CH DOWN key until "11" is displayed on FIP.	
Insert the Self-recorded tape and playback it. (SP/LP mode)	
Connect the Oscilloscope to: *CH1....Video Out (TP3021). *CH2....V.FREQ.(TW6002)	
Press the "4" key on the remote controller. (Confirm that TW6002 becomes high(2.5V)).	
Adjust the Frequency response by pressing the "2"(increase) and/or "8"(decrease) key on the Remote Controller. (See Fig.E2)	
Store the Adjusted value by pressing the "5" key on the Remote Controller.	
Release the Service mode by pressing the EJECT and FF keys simultaneously in 6 times until the FIP becomes normal indication.	

Fig. E6

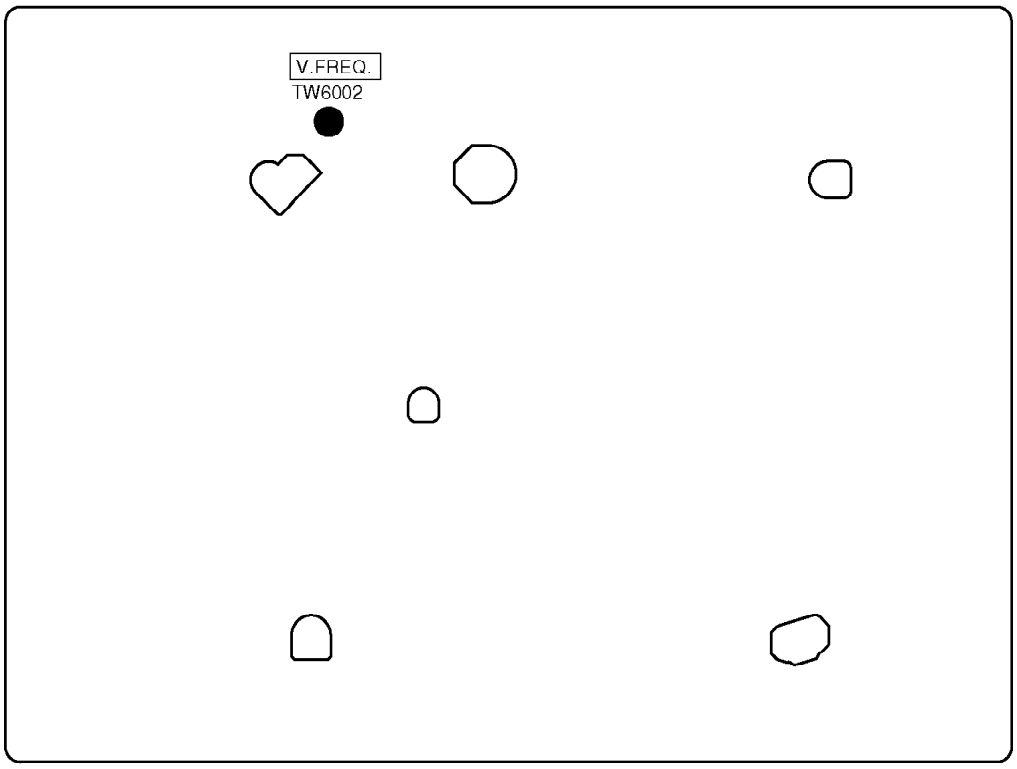
3.3.6. VHS VIDEO FREQUENCY RESPONSE ADJUSTMENT

PROCEDURES	FIP DISPLAY
Set the S-VHS SW to OFF. / Insert the VHS Blank Tape. / Input the Video sweep signal (See Fig. E3) to AV1 (VIDEO IN) and record it in SP and LP.	
Press the FF and EJECT Keys simultaneously for 3 seconds.	
Press the FF and EJECT Keys simultaneously twice.	
Press the EJECT key for 3 seconds.	
Press the CH UP and/or CH DOWN key until "11" is displayed on FIP.	
Insert the Self-recorded tape and playback it. (SP/LP mode)	
Connect the Oscilloscope to: *CH1....Video Out (TP3002). *CH2....V.FREQ.(TW6002)	
Press the "4" key on the remote controller. (Confirm that TW6002 becomes high(2.5V)).	
Adjust the Frequency response by pressing the "2"(increase) and/or "8"(decrease) key on the Remote Controller. (See Fig.E4)	
Store the Adjusted value by pressing the "5" key on the Remote Controller.	
Release the Service mode by pressing the EJECT and FF keys simultaneously in 6 times until the FIP becomes normal indication.	

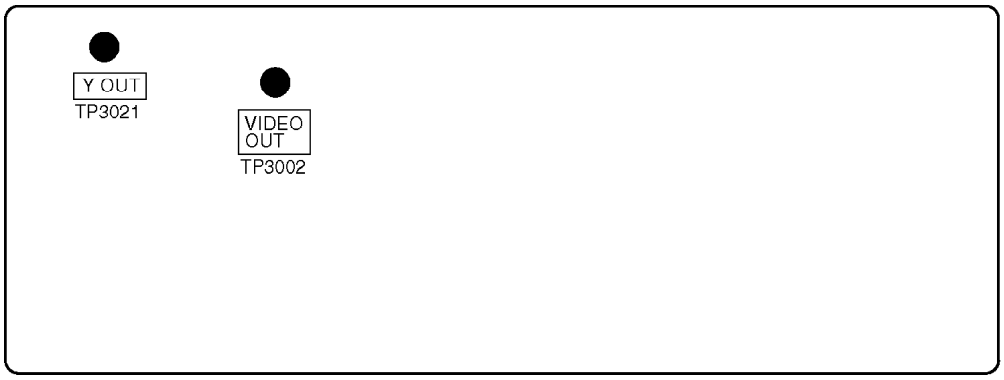
Fig. E7

3.3.7. LOCATION OF TEST POINTS & CONTROLS

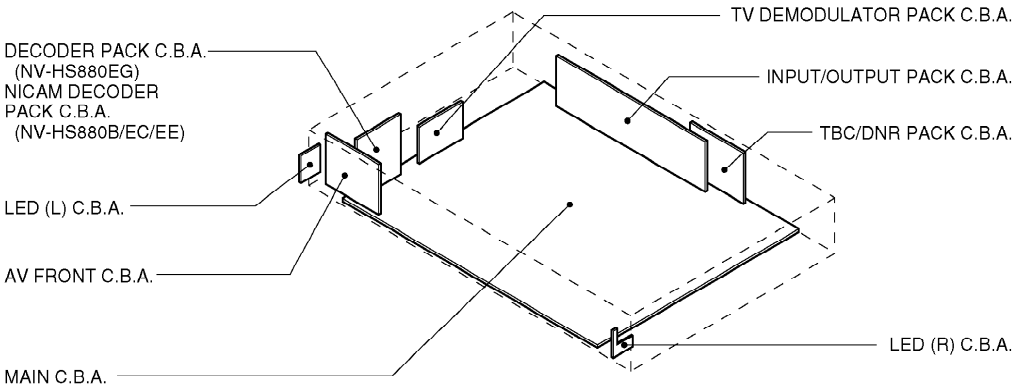
MAIN C.B.A.



INPUT/OUTPUT PACK C.B.A.



3.3.8. CIRCUIT BOARD LAYOUT



4. ABBREVIATIONS

5. INPUT/OUTPUT CHART

5.1. INPUT/OUTPUT CHART FOR IC6001

Fig. MP1

Fig. MP2

Fig. MP3

5.2. TRUTH TABLE (NV-HS880EG/EC/EE)

5.3. TRUTH TABLE (NV-HS880B)

6. WAVEFORM TABLE & VOLTAGE CHART

6.1. WAVEFORM TABLE

6.2. VOLTAGE CHART

7. BLOCK DIAGRAMS

7.1. SYSTEM CONTROL & SERVO BLOCK DIAGRAM

7.2. LUMINANCE & CHROMINANCE BLOCK DIAGRAM

7.3. AUDIO BLOCK DIAGRAM

8. SCHEMATIC DIAGRAMS

8.1. POWER TRANSFORMER SECTION IN MAIN SCHEMATIC DIAGRAM

8.2. POWER SUPPLY/ RF SECTION IN MAIN SCHEMATIC DIAGRAM

8.3. TIMER SECTION IN MAIN SCHEMATIC DIAGRAM

8.4. SYSTEM CONTROL & SERVO SECTION IN MAIN SCHEMATIC DIAGRAM

8.5. LUMINANCE & CHROMINANCE/ AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM

8.6. Hi-Fi AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM

8.7. TBC/DNR PACK SCHEMATIC DIAGRAM

8.8. INPUT/ OUTPUT PACK SCHEMATIC DIAGRAM

8.9. TV DEMODULATOR PACK SCHEMATIC DIAGRAM

8.10. DECODER PACK SCHEMATIC DIAGRAM (NV-HS880EG)

8.11. NICAM DECODER PACK SCHEMATIC DIAGRAM (NV-HS880B/ EC/EE)

8.12. AV FRONT SCHEMATIC DIAGRAM

8.13. LED (R) SCHEMATIC DIAGRAM

8.14. LED (L) SCHEMATIC DIAGRAM

8.15. CYLINDER STATOR UNIT SCHEMATIC DIAGRAM

8.16. CAPSTAN UNIT SCHEMATIC DIAGRAM

9. CIRCUIT BOARD ASSEMBLIES

9.1. INPUT/OUTPUT PACK C.B.A.

9.2. MAIN C.B.A.

9.3. CYLINDER STATOR UNIT

9.4. AV FRONT C.B.A.

9.5. TBC/DNR PACK C.B.A.

9.6. LED (R) C.B.A.

9.7. LED (L) C.B.A.

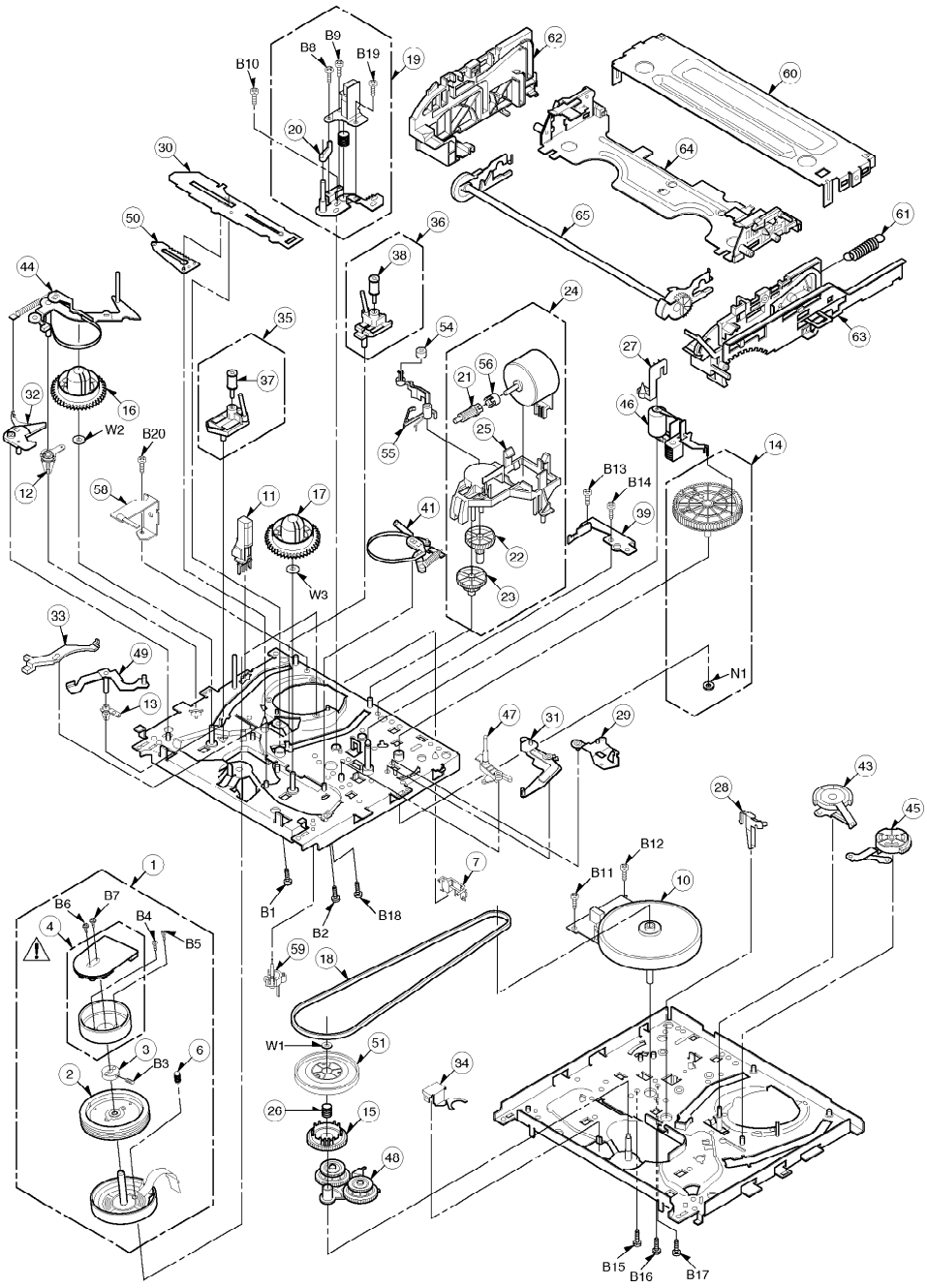
9.8. TV DEMODULATOR PACK C.B.A.

9.9. DECODER PACK C.B.A. (NV-HS880EG)

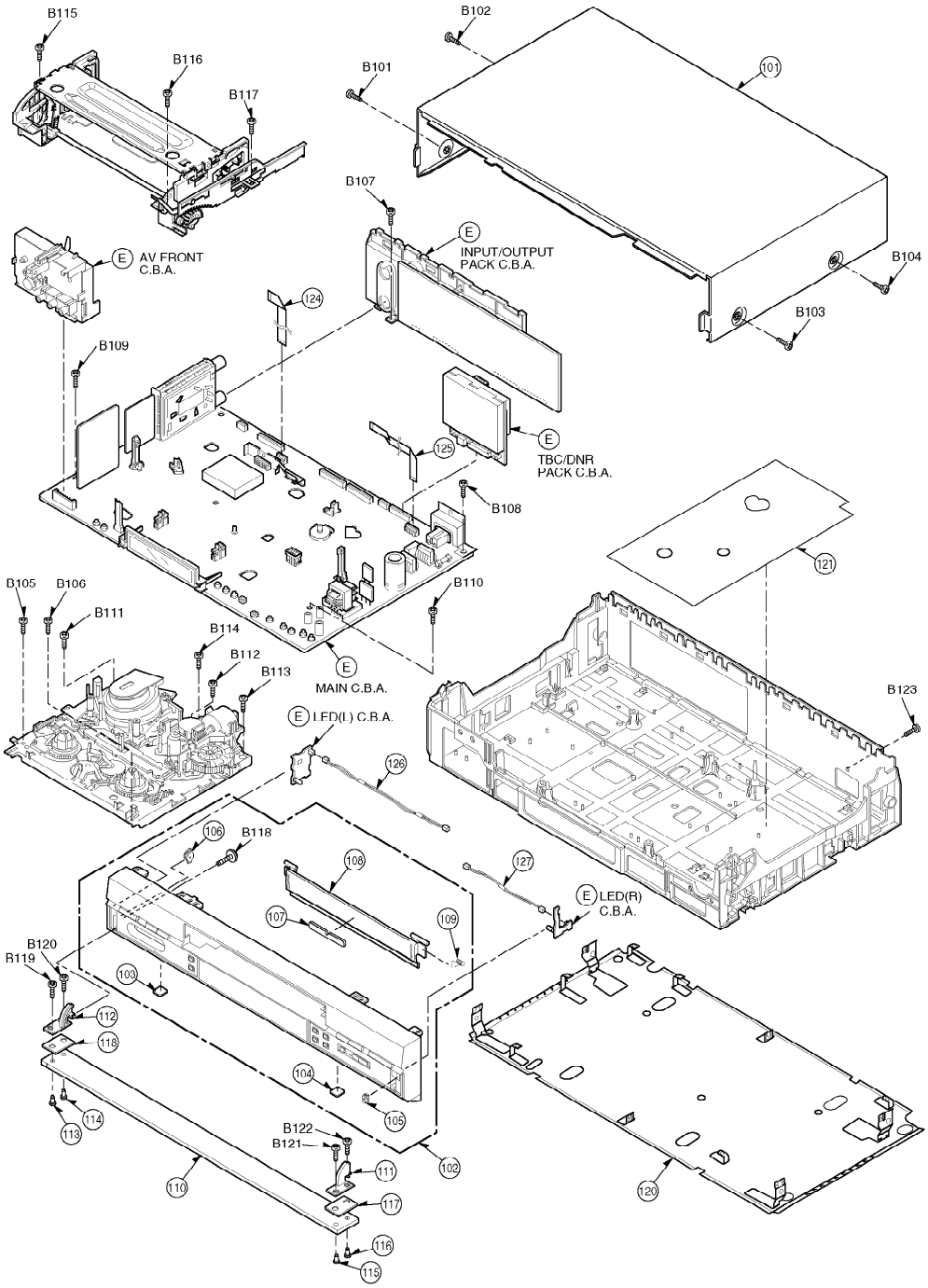
9.10. NICAM DECODER PACK C.B.A. (NV-HS880B/EC/EE)

10. EXPLODED VIEWS

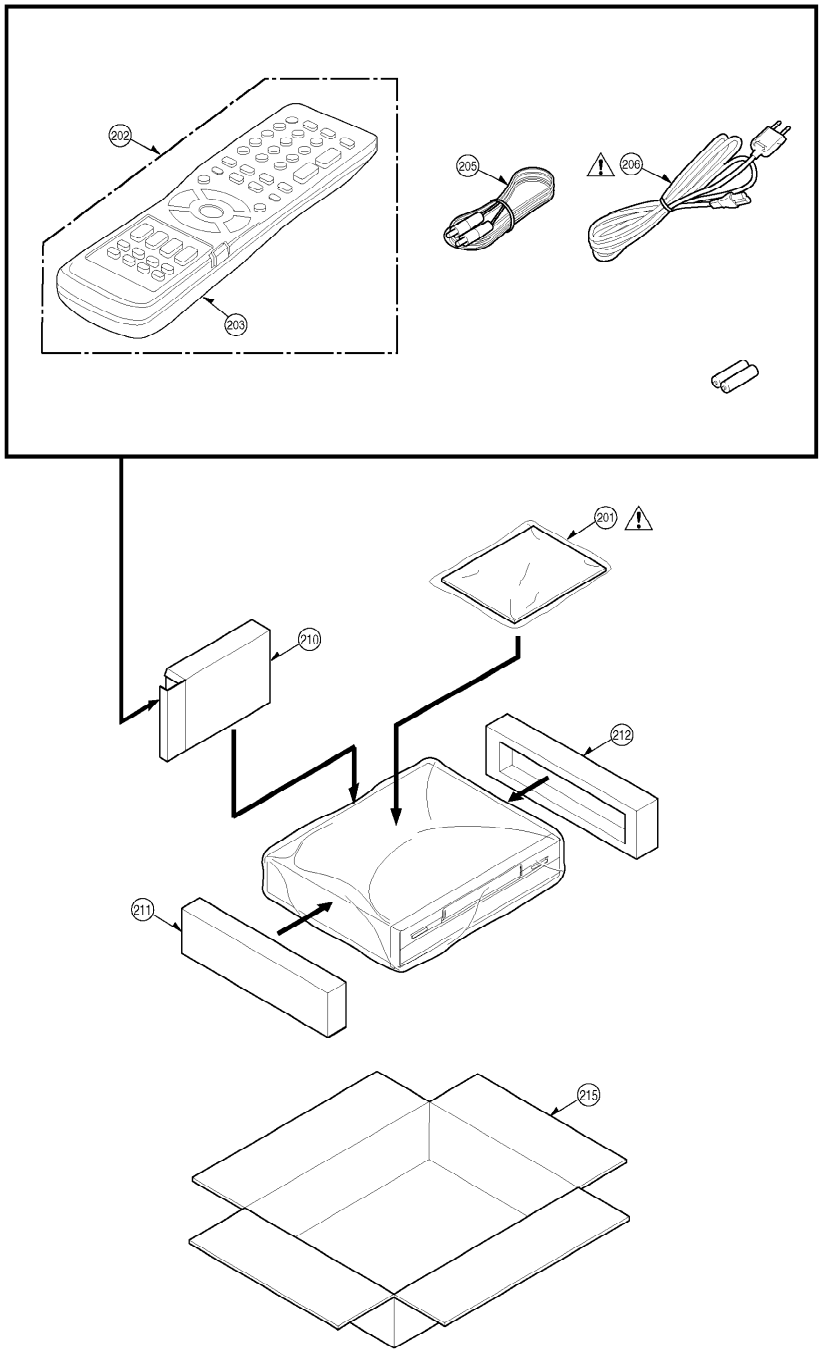
10.1. CHASSIS PARTS SECTION



10.2. CASING PARTS SECTION



10.3. PACKING PARTS SECTION



11. REPLACEMENT PARTS LIST

11.1. CHASSIS PARTS SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. " [MAVD] " in the Remarks column shows that the parts is/are supplied from MAVD.

Ref. No.	Part No.	Part Name & Description	Remarks
1	VEG1600	CYLINDER UNIT	[MAVD]
2	VXP2173	UPPER CYLINDER UNIT	[MAVD]
3	VDB1256	CYLINDER RETAINER	
4	VEM0715	CYLINDER MOTOR UNIT	⚠
6	VXS0135	EARTH BRUSH UNIT	
7	VMD3795	FLAT CABLE HOLDER	
10	VEK9069	CAPSTAN UNIT	
11	L1AZ00000004	FE HEAD	
12	VDB1431	TENSION ARM BOSS	
13	VDB1460	SUPPLY BRAKE ARM BOSS	
14	VDG1220KIT	MAIN CAM GEAR	
15	VDG1221	CONVERSION GEAR	
16	VDR0350	REEL TABLE	
17	VDR0350	REEL TABLE	
18	VDV0382	CAPSTAN BELT	
19	VED0412	A/C HEAD UNIT	
20	VMX2656	P4 CAP	
21	VDG1217	WORM GEAR	
22	VDG1218	WORM WHEEL GEAR	
23	VDG1219	CENTRE GEAR	
24	VEM0604	LOADING MOTOR UNIT	
25	VMD2619	MOTOR BRACKET	
26	VMB3045	CONVERSION GEAR SPRING	
27	VMD2620	OPENER PIECE	
28	VMD2738	LED PRISM	
29	VML3165	DRIVE RACK ARM	
30	VML3166	MAIN LEVER	
31	VML3167	DRIVE MAIN LEVER ARM	
32	VML3172	SUPPLY SPRING ARM	
33	VML3176	CONVERSION LEVER A	
34	VML3177	CONVERSION LEVER B	
35	VXA6226	INCLINED BASE (S) UNIT	
36	VXA5854	INCLINED BASE (T) UNIT	
37	VXP1895	ROLLER POST (S) UNIT	
38	VXP1891	ROLLER POST (T) UNIT	
39	VMA9672	SUPPORT ANGLE	
41	VXL2667	TAKE UP BRAKE ARM UNIT	
43	VXL2670	TAKE UP LOADING ARM UNIT	
44	VXL2793	TENSION ARM UNIT	
45	VXL2672	SUPPLY LOADING ARM UNIT	
46	VXL2785	PINCH ARM UNIT	
47	VXL2996	P5 ARM UNIT	
48	VXL2792	IDLER ARM UNIT	
49	VXL2733	SUPPLY BRAKE ARM UNIT	
50	VXL2747	LOADING RACK UNIT	
51	VXP2035	CENTRE CLUTCH UNIT	
54	VDP1668-K	CLEANER ROLLER	
55	VML3164	CLEANER ARM	
56	VDP1660	MOTOR COUPLING	[MAVD]
58	VXS0244	EATH ANGLE	
59	VMD2858	S-VHS SW ACTUATER	
60	VMA9516	TOP PLATE	
61	VMB3047	CONNECTION SPRING	

Ref. No.	Part No.	Part Name & Description	Remarks
62	VMD3379	SIDE PLATE (L)	
63	VXA6540	SIDE PLATE (R) UNIT	
64	VXA5746	CASSETTE HOLDER UNIT	
65	VXP1730	MAIN SHAFT UNIT	
B1	VHD1118	SCREW	
B2	VHD1118	SCREW	
B3	VHD0842	SCREW	
B4	VHD0843	SCREW	
B5	VHD0843	SCREW	
B6	VHD0844	SCREW	
B7	VHD0844	SCREW	
B8	VHD1066	SCREW	
B9	VHD1066	SCREW	
B10	VHD1044	SCREW	
B11	VHD1060	SCREW	
B12	VHD1071	SCREW	
B13	XTS26+6F	SCREW	
B14	XTN26+6F	SCREW	
B15	XTN26+7J	SCREW	
B16	XTN26+7J	SCREW	
B17	XTN26+7J	SCREW	
B18	VHD1095	SCREW	
B19	VHD1185	SCREW	
B20	XTV26+6FFZJ	SCREW	
N1	VHN0311	PUSH NUT	
W1	VMX2208	WASHER	
W2	VMX3022	WASHER	
W3	VMX3022	WASHER	

11.2. CASING PARTS SECTION PARTS LIST

Note: 1. "Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. " [MAVD] " in the Remarks column shows that the parts is/are supplied from MAVD.

Ref. No.	Part No.	Part Name & Description	Remarks
101	VGM1834	TOP PANEL	[MAVD]
102	VYP8466	FRONT PANEL (2) UNIT	[MAVD]
103	RKA0072-K	FOOT	
104	RKA0072-K	FOOT	
105	VGQ6641	MAGNET HOLDER	[MAVD]
106	VXP1549	DAMPER GEAR	
107	VGB0554	SUPER DRIVE BADGE	
108	VKF3542	BLINDER PANEL	[MAVD]
109	VMB2521	BLINDER SPRING	
110	VYF2825	DOOR (1) UNIT	[MAVD] NV-HS880EG-S
110	VYF2828	DOOR (1) UNIT	[MAVD] NV-HS880B-S
110	VYF2827	DOOR (1) UNIT	[MAVD] NV-HS880EC-S
110	VYF2829	DOOR (1) UNIT	[MAVD] NV-HS880EE-S
111	VML3674	DOOR ARM (R)	[MAVD]
112	VML3671	DOOR ARM (L)	[MAVD]
113	VGK2773	DOOR NUT	[MAVD]
114	VGK2773	DOOR NUT	[MAVD]
115	VGK2773	DOOR NUT	[MAVD]
116	VGK2773	DOOR NUT	[MAVD]
117	VMX3224	DOOR SPACER	[MAVD]
118	VMX3224	DOOR SPACER	[MAVD]
120	VKU0575	BOTTOM PLATE	[MAVD]
121	VMZ3099	VO SHEET	[MAVD]
124	VWJ1477	FLAT CARD CABLE (6P)	[MAVD] P4003-A/C HEAD
125	VWJ1476	FLAT CARD CABLE (9P)	[MAVD] P2502-P2901
126	VEE0T81	WIRE CABLE (2P)	[MAVD] P6005-P6801
127	VEE0T86	WIRE CABLE (2P)	[MAVD] P6006-P6901
B101	XTW3+10TFC	SCREW	
B102	XTW3+10TFC	SCREW	
B103	XTW3+10TFC	SCREW	
B104	XTW3+10TFC	SCREW	
B105	VHD0168	SCREW	
B106	VHD0168	SCREW	
B107	VHD1092	SCREW	
B108	VHD1092	SCREW	
B109	VHD1092	SCREW	
B110	VHD1092	SCREW	
B111	VHD1092	SCREW	
B112	VHD1092	SCREW	
B113	VHD1092	SCREW	
B114	XTV26+6JFR	SCREW	
B115	XTV26+8FR	SCREW	
B116	XTV26+8FR	SCREW	
B117	XTV26+8FR	SCREW	
B118	RHD26034	SCREW	
B119	RHD26033	SCREW	
B120	RHD26033	SCREW	
B121	RHD26033	SCREW	
B122	RHD26033	SCREW	
B123	XTV3+6JFZ	SCREW	

11.3. PACKING PARTS SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. " [MAVD] " in the Remarks column shows that the parts is/are supplied from MAVD.

Ref. No.	Part No.	Part Name & Description	Remarks
201	VQT9200	OPERATING INSTRUCTIONS (GERMAN)	⚠ [MAVD] NV-HS880EG-S
201	VQT9201	OPERATING INSTRUCTIONS (FRENCH)	⚠ [MAVD] NV-HS880EG-S
201	VQT9202	OPERATING INSTRUCTIONS (ITALIAN)	⚠ [MAVD] NV-HS880EG-S
201	VQT9203	OPERATING INSTRUCTIONS (SPANISH)	⚠ [MAVD] NV-HS880EC-S
201	VQT9204	OPERATING INSTRUCTIONS (DANISH)	⚠ [MAVD] NV-HS880EC-S
201	VQT9205	OPERATING INSTRUCTIONS (PORTUGUESE)	⚠ [MAVD] NV-HS880EC-S
201	VQT9206	OPERATING INSTRUCTIONS (ENGLISH)	⚠ [MAVD] NV-HS880B-S
201	VQT9207	OPERATING INSTRUCTIONS (FRENCH)	⚠ [MAVD] NV-HS880EE-S
202	N2QAKB000040	REMOTE CONTROLLER	[MAVD] NV-HS880EG-S/EC-S/EE-S
202	N2QAKB000041	REMOTE CONTROLLER	[MAVD] NV-HS880B-S
203	R0186-720010	BATTERY COVER	[MAVD]
205	VJA0728-A	DIN RF CABLE	[MAVD]
206	RJA0043	AC CORD	⚠ [MAVD] NV-HS880EG-S/EC-S/EE-S
206	RJA0044	AC CORD	⚠ [MAVD] NV-HS880B-S
210	VPK2246	ACCESSORIES PACKING	[MAVD]
211	VPN5555	CUSHION (L)	[MAVD]
212	VPN5554	CUSHION (R)	[MAVD]
215	VPG0M91	PACKING	[MAVD]
		SERVICE FIXTURES & TOOLS	
	VFJ8125H3F	VHS ALIGNMENT TAPE (PAL)	
	VFK0335	RETAINING RING REMOVER (3mm/ 4mm)	
	VFK0329	POST ADJUSTMENT SCREWDRIVER	
	VFK0326	HEX WRENCH SET	
	VFK0132	BACK TENSION METER	
	VFK27	HEAD CLEANING STICK	
	VFK1024	MOLYTONE GREASE	
	VFK0330	FINE ADJUSTMENT GEAR DRIVER	
	VFK1301	SILICONE GREASE	
	VFK1298	FLOIL GREASE	

11.4. ELECTRICAL PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE: Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uf), P=uuF.
4. The P.C. Board units marked width "■" show below the main assembled parts.
5. The marking (RTL) indicaters the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.
6. " [MAVD] " in the Remarks column shows that the parts is/are supplied from MAVD.
7. " *1 ", " *2 ", " *3 ", " *4 " in the Remarks column shows the models as follows.
" *1 ": NV-HS880EG-S
" *2 ": NV-HS880B-S
" *3 ": NV-HS880EC-S
" *4 ": NV-HS880EE-S

Ref. No.	Part No.	Part Name & Description	Remarks
■	VEP06E67J	MAIN C.B.A.	(RTL)[MAVD] *1
			THE FOLLOWING C.B.A.S ARE INCLUDED IN MAIN C.B.A.
			VEP07A16A,VEP07A23S
■	VEP06E67K	MAIN C.B.A.	(RTL)[MAVD] *2
			THE FOLLOWING C.B.A.S ARE INCLUDED IN MAIN C.B.A.
			VEP07A18X,VEP07A23T
■	VEP06E67L	MAIN C.B.A.	(RTL)[MAVD] *3
			THE FOLLOWING C.B.A.S ARE INCLUDED IN MAIN C.B.A.
			VEP07A18R,VEP07A23S
■	VEP06E67N	MAIN C.B.A.	(RTL)[MAVD] *4
			THE FOLLOWING C.B.A.S ARE INCLUDED IN MAIN C.B.A.
			VEP07A18T,VEP07A23U
■	VEP07A16A	DECODER PACK C.B.A.	(RTL)[MAVD] *1
			INCLUDED IN MAIN C.B.A. (VEP06E67J)
■	VEP07A18X	NICAM DECODER PACK C.B.A.	(RTL)[MAVD] *2
			INCLUDED IN MAIN C.B.A. (VEP06E67K)
■	VEP07A18R	NICAM DECODER PACK C.B.A.	(RTL)[MAVD] *3
			INCLUDED IN MAIN C.B.A. (VEP06E67L)
■	VEP07A18T	NICAM DECODER PACK C.B.A.	(RTL)[MAVD] *4
			INCLUDED IN MAIN C.B.A. (VEP06E67N)
■	VEP07A23S	TV DEMODULATOR PACK C.B.A	(RTL)[MAVD] *1,*3
			INCLUDED IN MAIN C.B.A. (VEP06E67J/L)
■	VEP07A23T	TV DEMODULATOR PACK C.B.A	(RTL)[MAVD] *2
			INCLUDED IN MAIN C.B.A. (VEP06E67K)
■	VEP07A23U	TV DEMODULATOR PACK C.B.A	(RTL)[MAVD] *4
			INCLUDED IN MAIN C.B.A. (VEP06E67N)
■	VEP03G10A	INPUT/OUTPUT C.B.A.	(RTL)[MAVD]
■	VEP03G11A	TBC/DNR C.B.A.	(RTL)[MAVD] *1,*3,*4
■	VEP03G11B	TBC/DNR C.B.A.	(RTL)[MAVD] *2

Ref. No.	Part No.	Part Name & Description	Remarks
■	VEP04800C	FRONT C.B.A.	(RTL)[MAVD]
■	VEP06E69A	LED (R) C.B.A.	(RTL)[MAVD]
■	VEP06E85A	LED (L) C.B.A.	(RTL)[MAVD]
■	----------	CYLINDER STATOR C.B.A.	INCLUDED IN CYLINDER MOTOR UNIT (VEM0715).
■	----------	CAPSTAN DRIVE C.B.A.	INCLUDED IN CAPSTAN UNIT (VEK9069).
■	VEP06E67J	MAIN C.B.A.	(RTL)[MAVD] *1
■	VEP06E67K	MAIN C.B.A.	(RTL)[MAVD] *2
■	VEP06E67L	MAIN C.B.A.	(RTL)[MAVD] *3
■	VEP06E67N	MAIN C.B.A.	(RTL)[MAVD] *4
C0701	ECJ2VF1C105Z	C.CAPACITOR CH 16V 1U	
C0702	ECJ1VB1H102K	C.CAPACITOR CH 50V 1000P	
C0703	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	
C0704	ECJ2VB1E333K	C.CAPACITOR CH 25V 0.033U	
C0707	ECEA1HKS2R2	E.CAPACITOR 50V 2.2U	
C0708	ECEA1HKAR47B	E.CAPACITOR 50V 0.47U	
C0710	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C0711	ECEA1CKS220	E.CAPACITOR 16V 22U	
C0712	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C0713	ECEA0JKS331	E.CAPACITOR 6.3V 330U	
C0714	ECJ2VF1C105Z	C.CAPACITOR CH 16V 1U	
C0715	ECJ1VC1H030C	C.CAPACITOR CH 50V 3P	*1,*3,*4
C0715	ECJ1VC1H120J	C.CAPACITOR CH 50V 12P	*2
C0717	ECUM1H330GUV	C.CAPACITOR CH 50V 33P	
C0719	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	F1H1E104A026
C0721	ECJ1VC1H121J	C.CAPACITOR CH 50V 120P	[MAVD] *1,*3
C0721	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	*2
C0721	ECJ1VC1H560J	C.CAPACITOR CH 50V 56P	*4
C0724	ECJ1VB1H221K	C.CAPACITOR CH 50V 220P	*1,*3,*4
C0724	ECUX1H331KBV	C.CAPACITOR CH 50V 330P	*2
C1002	EEUEB1H220SB	E.CAPACITOR 50V 22U	[MAVD]
C1003	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C1004	F2A1C470A015	E.CAPACITOR 16V 47U	
C1006	ECEA1HKA4R7B	E.CAPACITOR 50V 4.7U	
C1007	ECJ1VB1H102K	C.CAPACITOR CH 50V 1000P	
C1008	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C1009	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C1011	EEUEB1E470SB	E.CAPACITOR 25V 47U	[MAVD]
C1016	ECA1EHJ470	E.CAPACITOR 25V 47U	[MAVD]
C1018	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C1019	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C1020	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C1021	ECEA1CKS220	E.CAPACITOR 16V 22U	

Ref. No.	Part No.	Part Name & Description	Remarks
C1024	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C1025	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	[MAVD]
C1026	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	[MAVD]
C1027	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C1028	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C1101	VCF2AAF683M	X2 CAPACITORS	⚠ [MAVD]
C1102	F1BAF1020020	CERAMIC CAPACITOR	⚠ [MAVD]
C1106	EEUEB2G330E	E.CAPACITOR 400V 33U	[MAVD]
C1107	F1A3A271A028	C.CAPACITOR 1KV 270P	F1A3A271A034
C1108	ECQB1H223JF3	P.CAPACITOR 50V 0.022U	
C1109	ECQB1H473JF3	P.CAPACITOR 50V 0.047U	
C1110	ECQV1H104JL3	P.CAPACITOR 50V 0.1U	
C1111	ECQB1H103JZ	P.CAPACITOR 50V 0.01U	
C1112	F1BAF1020020	CERAMIC CAPACITOR	⚠ [MAVD]
C1201	F1B3A332A004	C.CAPACITOR 1KV 3300P	[MAVD]
C1202	F2A1H560A101	E.CAPACITOR 50V 56U	[MAVD]
C1203	EEUFG1E821	E.CAPACITOR 25V 820U	[MAVD]
C1204	EEUFG1A272	E.CAPACITOR 10V 2700U	[MAVD]
C1205	F2A1H560A101	E.CAPACITOR 50V 56U	[MAVD]
C1206	F2A1A101A089	E.CAPACITOR 10V 100U	[MAVD]
C1207	ECQV1H104JL3	P.CAPACITOR 50V 0.1U	
C1208	ECA1AHJ331	E.CAPACITOR 10V 330U	[MAVD]
C1209	ECA1EM101	E.CAPACITOR 25V 100U	
C1501	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C2502	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C2503	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C2505	ECJ1VB1C563K	C.CAPACITOR CH 16V 0.056U	
C2506	ECJ1VB1C563K	C.CAPACITOR CH 16V 0.056U	
C2507	ECJ1VB1C563K	C.CAPACITOR CH 16V 0.056U	
C2508	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C2509	ECJ1VF1C474Z	C.CAPACITOR CH 16V 0.47U	
C2510	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	[MAVD]
C2511	ECEA0JKN220B	E.CAPACITOR 6.3V 22U	
C2512	ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	
C2513	ECJ1VB1H392K	C.CAPACITOR CH 50V 3900P	
C2514	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C2515	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C2516	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C2518	ECJ2VF1E104Z	C.CAPACITOR CH 25V 0.1U	
C2519	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	
C2520	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	
C2521	ECJ2VB1C224K	C.CAPACITOR CH 16V 0.22U	
C2522	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C2523	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C2524	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C2525	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C2526	ECA0JHJ221	E.CAPACITOR 6.3V 220U	[MAVD]
C3001	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3002	ECJ1VC1H151J	C.CAPACITOR CH 50V 150P	
C3003	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C3005	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	
C3006	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3007	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	

Ref. No.	Part No.	Part Name & Description	Remarks
C3008	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3009	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3010	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3011	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C3012	ECJ2VB1C224K	C.CAPACITOR CH 16V 0.22U	
C3013	F1J1C105A091	C.CAPACITOR 16V 1U	
C3014	F1J1A335A005	C.CAPACITOR 10V 3.3U	
C3015	ECEA1HKS010	E.CAPACITOR 50V 1U	
C3016	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C3017	F1J1C105A091	C.CAPACITOR 16V 1U	
C3018	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3019	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C3020	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C3021	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
C3025	F1J1A335A005	C.CAPACITOR 10V 3.3U	
C3026	ECJ1VC1H050C	C.CAPACITOR CH 50V 5P	
C3027	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	
C3028	ECJ2YB1C474K	C.CAPACITOR CH 16V 0.47U	
C3029	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C3030	ECJ2VB1C224K	C.CAPACITOR CH 16V 0.22U	
C3031	ECJ2YB1A225K	C.CAPACITOR CH 10V 2.2U	[MAVD]
C3032	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	
C3033	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3034	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	
C3035	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C3036	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3037	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C3038	F1J1C105A091	C.CAPACITOR 16V 1U	
C3039	ECEA0JKS101	E.CAPACITOR 6.3V 100U	
C3040	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C3041	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C3043	ECEA1CKS100	E.CAPACITOR 16V 10U	
C3044	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3047	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3048	ECEA1CKS100	E.CAPACITOR 16V 10U	
C3049	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	
C3050	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C3051	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3053	F1J1C105A091	C.CAPACITOR 16V 1U	
C3057	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	
C3058	ECJ1VC1H151J	C.CAPACITOR CH 50V 150P	
C3059	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3060	ECJ1VF1A105Z	C.CAPACITOR CH 10V 1U	
C3062	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3068	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3069	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3501	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C3502	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C3503	ECUX1H221GCV	C.CAPACITOR CH 50V 220P	[MAVD]
C3504	ECUV1H271GCN	C.CAPACITOR CH 50V 270P	ECJ2VC1H271G
C3505	ECUV1H271GCN	C.CAPACITOR CH 50V 270P	ECJ2VC1H271G
C3506	ECUV1H820GCN	C.CAPACITOR CH 50V 82P	ECJ2VC1H820G
C3507	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C3508	ECUV1H271GCN	C.CAPACITOR CH 50V 270P	ECJ2VC1H271G

Ref. No.	Part No.	Part Name & Description	Remarks
C3509	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C3510	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C3511	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C3512	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C3513	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C3515	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C3516	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3517	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3518	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C3521	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C4001	ECEA1CKS100	E.CAPACITOR 16V 10U	
C4002	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C4003	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C4004	ECEA1CKS100	E.CAPACITOR 16V 10U	
C4005	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C4006	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C4007	ECJ2YB0J475K	C.CAPACITOR CH 6.3V 4.7U	
C4008	ECJ1VB1H822K	C.CAPACITOR CH 50V 8200P	
C4009	ECEA0JKS220	E.CAPACITOR 6.3V 22U	
C4010	ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	
C4012	ECJ1VB1H122K	C.CAPACITOR CH 50V 1200P	
C4013	ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	
C4014	ECJ1VB1H472K	C.CAPACITOR CH 50V 4700P	
C4015	ECEA0JKS220	E.CAPACITOR 6.3V 22U	
C4016	ECEA0JKS101	E.CAPACITOR 6.3V 100U	
C4017	ECJ1VC1H101J	C.CAPACITOR CH 50V 100P	
C4018	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	ECJ1XC1H221J
C4019	ECQV1H154JL	P.CAPACITOR 50V 0.15U	
C4020	ECEA1AKS470	E.CAPACITOR 10V 47U	
C4021	ECJ1VB1H472K	C.CAPACITOR CH 50V 4700P	
C4022	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	
C4023	ECEA1AKS220	E.CAPACITOR 10V 22U	
C4024	ECEA1CKS100	E.CAPACITOR 16V 10U	
C4025	ECEA1AKS220	E.CAPACITOR 10V 22U	
C4026	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	
C4027	ECJ1VB1H222K	C.CAPACITOR CH 50V 2200P	
C4028	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C4029	ECQB1H223JF3	P.CAPACITOR 50V 0.022U	
C4501	ECEA1CKS100	E.CAPACITOR 16V 10U	
C4502	ECEA1CKS100	E.CAPACITOR 16V 10U	
C4503	ECEA1CKS100	E.CAPACITOR 16V 10U	
C4504	ECQB1H473JF3	P.CAPACITOR 50V 0.047U	
C4505	ECEA1AKS330	E.CAPACITOR 10V 33U	
C4506	ECEA1CKS100	E.CAPACITOR 16V 10U	
C4507	ECEA1CKS220	E.CAPACITOR 16V 22U	
C4508	ECQB1H153JF3	P.CAPACITOR 50V 0.015U	
C4509	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	
C4511	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C4514	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C4515	ECEA0JKS101	E.CAPACITOR 6.3V 100U	
C4516	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C4517	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C4519	ECJ2VB1C224K	C.CAPACITOR CH 16V 0.22U	
C4520	ECQB1H153JF3	P.CAPACITOR 50V 0.015U	

Ref. No.	Part No.	Part Name & Description	Remarks
C4521	ECEA0JKS220	E.CAPACITOR 6.3V 22U	
C4522	ECEA1CKS100	E.CAPACITOR 16V 10U	
C4523	ECEA1AKS330B	E.CAPACITOR 10V 33U	
C4524	ECQB1H473JF3	P.CAPACITOR 50V 0.047U	
C4525	ECEA0JKS101	E.CAPACITOR 6.3V 100U	
C4526	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C4529	ECEA1CKS100	E.CAPACITOR 16V 10U	
C4530	ECEA1CKS100	E.CAPACITOR 16V 10U	
C4531	ECEA1CKS100	E.CAPACITOR 16V 10U	
C4532	ECEA1CKS100	E.CAPACITOR 16V 10U	
C4533	ECEA1CKS100	E.CAPACITOR 16V 10U	
C4534	ECEA1CKA470	E.CAPACITOR 16V 47U	
C4535	ECEA1CKS100	E.CAPACITOR 16V 10U	
C4536	ECEA1CKS220	E.CAPACITOR 16V 22U	
C4538	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C4539	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C4540	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C4541	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C4544	ECJ1VC1H101J	C.CAPACITOR CH 50V 100P	
C4545	ECJ1VC1H101J	C.CAPACITOR CH 50V 100P	
C5002	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C5003	ECEA0JKS101	E.CAPACITOR 6.3V 100U	
C5004	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C5005	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C5006	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C5007	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C5008	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C5009	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C5010	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C6001	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C6002	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C6003	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	ECJ1XC1H471J
C6004	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C6005	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C6009	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	
C6010	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	
C6011	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	
C6012	ECJ1VC1H150J	C.CAPACITOR CH 50V 15P	
C6013	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	
C6014	ECJ1VB1H102K	C.CAPACITOR CH 50V 1000P	
C6015	ECEA1CKS100	E.CAPACITOR 16V 10U	
C6016	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C6017	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	
C6018	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	
C6019	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C6020	ECJ2VF1C105Z	C.CAPACITOR CH 16V 1U	
C6021	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C6022	ECUV1H221JCN	C.CAPACITOR CH 50V 220P	ECJ2VC1H221J
C6023	ECJ2VF1C105Z	C.CAPACITOR CH 16V 1U	
C6024	ECEA1AKS221	E.CAPACITOR 10V 220U	
C6025	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C6026	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C6027	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	
C6028	ECJ1VB1H222K	C.CAPACITOR CH 50V 2200P	

Ref. No.	Part No.	Part Name & Description	Remarks
C6029	ECJ1VF1C474Z	C.CAPACITOR CH 16V 0.47U	
C6030	ECJ1VC1H151J	C.CAPACITOR CH 50V 150P	
C6031	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C6032	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C6033	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	ECJ1XC1H221J
C6034	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	ECJ1XC1H221J
C6035	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	
C6036	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	ECJ1XC1H561J
C6037	ECUV1H221JCN	C.CAPACITOR CH 50V 220P	ECJ2VC1H221J
C6040	ECJ1VC1H101J	C.CAPACITOR CH 50V 100P	
C6041	ECJ1VC1H101J	C.CAPACITOR CH 50V 100P	
C6042	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C7301	ECUV1H103KBN	C.CAPACITOR CH 50V 0.01U	*1 ECJ2VB1H103K
C7301	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	*2,*3,*4
C7302	ECEA1HKNR47B	E.CAPACITOR 50V 0.47U	*1
C7303	ECEA1HKNR47B	E.CAPACITOR 50V 0.47U	*1
C7304	ECUV1H681JCN	C.CAPACITOR CH 50V 680P	*1
C7304	F2A0J1010027	E.CAPACITOR 6.3V 100U	*2,*3,*4
C7305	ECUX1H123KBN	C.CAPACITOR CH 50V 0.012U	[MAVD] *1
C7305	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	[MAVD] *2,*3,*4
C7306	ECUX1H123KBN	C.CAPACITOR CH 50V 0.012U	[MAVD] *1
C7306	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	[MAVD] *2,*3,*4
C7307	ECUV1H681JCN	C.CAPACITOR CH 50V 680P	*1
C7307	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	*2,*3,*4
C7308	ECEA1HKNR47B	E.CAPACITOR 50V 0.47U	*1
C7308	ECEA1HKS2R2	E.CAPACITOR 50V 2.2U	*2,*3,*4
C7309	ECUV1H103KBN	C.CAPACITOR CH 50V 0.01U	*1 ECJ2VB1H103K
C7310	ECUV1H103KBN	C.CAPACITOR CH 50V 0.01U	*1 ECJ2VB1H103K
C7311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	*2,*3,*4
C7312	ECEA1CKS100	E.CAPACITOR 16V 10U	*1
C7312	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	*2,*3,*4
C7313	ECEA1CKS100	E.CAPACITOR 16V 10U	*1
C7313	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	*2,*3,*4
C7315	ECJ2VB1E104K	C.CAPACITOR CH 25V 0.1U	*2,*3,*4
C7316	ECJ2VF1H104Z	C.CAPACITOR CH 50V 0.1U	*1
C7316	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	*2,*3,*4
C7317	ECEA0JKS101	E.CAPACITOR 6.3V 100U	*1
C7317	F2A1C100A009	E.CAPACITOR 16V 10U	*2,*3,*4
C7318	ECEA1CKS100	E.CAPACITOR 16V 10U	*1
C7318	F2A0J470A011	E.CAPACITOR 6.3V 47U	*2,*3,*4
C7319	ECEA1CKA470	E.CAPACITOR 16V 47U	*1
C7319	F2A1C100A009	E.CAPACITOR 16V 10U	*2,*3,*4
C7320	ECJ2VB1H472K	C.CAPACITOR CH 50V 4700P	[MAVD] *1
C7320	F2A1C100A009	E.CAPACITOR 16V 10U	*2,*3,*4
C7321	ECEA1HKAR47B	E.CAPACITOR 50V 0.47U	*1
C7322	ECEA1HKNR47B	E.CAPACITOR 50V 0.47U	*1
C7323	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	[MAVD] *1
C7324	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	*2,*3,*4
C7325	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	*2,*3,*4
C7326	ECUM1H152KBM	C.CAPACITOR CH 50V 1500P	*1
C7327	ECUM1H152KBM	C.CAPACITOR CH 50V 1500P	*1
C7328	ECUM1H152KBM	C.CAPACITOR CH 50V 1500P	*1
C7341	ECJ1VB1H472K	C.CAPACITOR CH 50V 4700P	*2,*3,*4
C7342	ECJ1VB1H472K	C.CAPACITOR CH 50V 4700P	*2,*3,*4

Ref. No.	Part No.	Part Name & Description	Remarks
C7343	ECJ1VB1H222K	C.CAPACITOR CH 50V 2200P	*2,*3,*4
C7501	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C7502	ECEA1HKS100	E.CAPACITOR 50V 10U	
C7503	ECJ1VC1H120J	C.CAPACITOR CH 50V 12P	
C7504	ECEA0JKS101	E.CAPACITOR 6.3V 100U	
C7507	VCE0073	SUPER CAPACITOR	
C7508	ECEA1AKS221	E.CAPACITOR 10V 220U	
C7509	ECJ1VB1H682K	C.CAPACITOR CH 50V 6800P	
C7510	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C7511	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C7601	ECEA0JKS101	E.CAPACITOR 6.3V 100U	
C7602	ECEA0JKS101	E.CAPACITOR 6.3V 100U	
C7605	ECEA1HKS010	E.CAPACITOR 50V 1U	
C7610	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	[MAVD]
C7611	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	[MAVD]
C7612	ECEA0JKS101	E.CAPACITOR 6.3V 100U	
C7613	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C7615	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	*4
C7619	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C7620	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C7652	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	*2,*3,*4
D0702	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
D1002	MA4056N-H	DIODE	MAZ4056NH
D1003	MA4051N-L	DIODE	
D1004	B0EAKL000031	DIODE	
D1005	MA4056N-H	DIODE	MAZ4056NH
D1007	MA4130N-L	DIODE	MAZ4130NL
D1008	B0EAKL000031	DIODE	
D1009	MA4033H	DIODE	[MAVD]
D1010	MA2C165001VT	DIODE	
D1101	ERZVA5Z471	TRANSIENT/SURGE ABSORBER	⚠
D1103	DF08S-6622	DIODE	B0KB00000013
D1104	MAZ40270LF	DIODE	[MAVD]
D1105	MA2C165001VT	DIODE	
D1106	MA2C18500E	DIODE	[MAVD]
D1107	MAZ751000C	DIODE	
D1108	AU01Z	DIODE	B0HAGM000006
D1201	MA2C18500E	DIODE	[MAVD]
D1204	21DQ10FC4	DIODE	B0JAML000007
D1208	MA2C18500E	DIODE	[MAVD]
D1209	11EQS04	DIODE	B0JAME000020
D1213	31DQ04	DIODE	B0JAPE000004
D1501	SIR505S	DIODE	B3EA00000040
D2501	MA2C165001VT	DIODE	
D2502	MA2C165001VT	DIODE	
D4502	MA2C165001VT	DIODE	
D6003	B0ACCK000005	DIODE	
D6004	B0ACCK000005	DIODE	
D7501	MAZ4220NMF	DIODE	[MAVD]
D7503	B0JACE000001	DIODE	
D7601	MA4300M	DIODE	MAZ43000M
D7602	MA2C165001VT	DIODE	*1
D7603	MA2C165001VT	DIODE	*1

Ref. No.	Part No.	Part Name & Description	Remarks
DP7501	A2BD00000040	DISPLAY TUBE	
F1101	K5D162BK0005	FUSE	⚠
FL7301	VLF0633	FILTER	*2,*3,*4 J0HACK000008
IC0701	LA75503	IC	C1AA00000606
IC1001	UPC1093J	IC	C0DAEMC00002
IC1201	UPC1093J	IC	C0DAEMC00002
IC1501	RPI354N	IC	B3EZ00000001
IC1502	RPI354N	IC	B3EZ00000001
IC2501	C1AB00001331	IC	[MAVD] C1AB00001332
IC3001	C1AB00001299	IC	[MAVD]
IC3002	C1AB00001340	IC	[MAVD] C1AB00001341
IC3501	AN3293S	IC	
IC3502	M52065FP	IC	C1AB00000739
IC4501	AN3656NFBPBV	IC	
IC6001	C2CBJG000240	IC	[MAVD]
IC6002	M24C16-WBN6	IC	C3EAGC000015
IC6003	C1AB00001293	IC	[MAVD]
IC6004	C1AB00001486	IC	[MAVD]
IC7301	C0ZBZ0000580	IC	[MAVD] *1
IC7301	TDA9874AH	IC	*2,*3,*4 C1AB00001404
IC7302	PST7043	IC	*2,*3,*4 C0EAH0000051
IC7501	M35502AFP	IC	
IC7503	C0EBE0000211	IC	[MAVD]
IC7504	C0EBH0000218	IC	[MAVD]
K0701	ECJ1VC1H560J	C.CAPACITOR CH 50V 56P	*1,*3
K0703	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K0707	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K0709	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K1213	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3001	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3003	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3005	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3006	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3016	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3017	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3025	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3027	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3028	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3035	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K4001	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K4004	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K5001	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K6002	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K6003	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K7301	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K7302	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	*2,*3,*4 D0GBR00JA017
K7303	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	*2,*3,*4 D0GBR00JA017
K7503	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K7601	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017

Ref. No.	Part No.	Part Name & Description	Remarks
K7609	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K7611	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K7612	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K7613	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K7614	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K7616	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	*4 D0GBR00JA017
L0701	ELJNAR27JF	CHIP INDUCTOR 0.27UH	*1,*3,*4
L0701	ELJNAR22JF	CHIP INDUCTOR 0.22UH	*2
L0703	ELJNA2R2JF	CHIP INDUCTOR 2.2UH	*1,*3,*4
L0703	ELJNA1R8JF	CHIP INDUCTOR 1.8UH	*2
L1101	ELF15N005A	LINE FILTER	⚠
L1102	ELF15N003A	LINE FILTER	⚠
L1201	VLQ0775K220	CHOKE COIL	[MAVD]
L1202	VLQ0775K220	CHOKE COIL	[MAVD]
L2501	VLQ0599J680	COIL 68UH	G0C680JA0026
L3002	VLQ0599J820	COIL 82UH	G0C820JA0026
L3003	VLQ0599J150	COIL 15UH	G0C150JA0026
L3006	VLQ0163J120	COIL 12UH	G1C120J00001
L3007	VLQ0599J390	COIL 39UH	G0C390JA0026
L3008	VLQ0599J560	COIL 56UH	G0C560JA0026
L3010	VLQ0599J560	COIL 56UH	G0C560JA0026
L3013	VLQ0599J181	COIL 180UH	G0C181JA0019
L3015	VLQ0599J560	COIL 56UH	G0C560JA0026
L4002	VLQ0599J680	COIL 68UH	G0C680JA0026
L4003	VLQ0599J680	COIL 68UH	G0C680JA0026
L4501	VLQ0599J1R2	COIL 1.2UH	G0C1R2JA0026
L4502	VLQ0599J1R2	COIL 1.2UH	G0C1R2JA0026
L5001	VLQ0599J560	COIL 56UH	G0C560JA0026
L6001	G0C101JA0019	INDUCTOR	
L6003	VLQ0599J221	COIL 220UH	G0C221JA0026
L6005	VLQ0599J680	COIL 68UH	G0C680JA0026
L6006	VLQ0599J680	COIL 68UH	G0C680JA0026
L7302	G0C1R0JA0019	INDUCTOR	*2,*3,*4
L7602	G0C330JA0019	INDUCTOR	
L7603	VLQ0599J180	COIL 18UH	G0C180JA0026
L7604	VLQ0599J2R2	COIL 2.2UH	G0C2R2JA0026
L7607	VLQ0599J2R2	COIL 2.2UH	*2,*3,*4 G0C2R2JA0026
L7651	G0C100JA0019	INDUCTOR	*2,*3,*4
LB0701	J0JBC0000041	FILTER	*4
LB1104	J0JKB0000028	FILTER	J0JKB0000027
LB1105	J0JKB0000028	FILTER	J0JKB0000027
LB1106	J0JHC0000070	FILTER	[MAVD]
LB1111	J0JHC0000070	FILTER	[MAVD]
LB4001	J0JBC0000070	FILTER	[MAVD]
LB4002	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
LB4003	J0JBC0000070	FILTER	[MAVD]
LB4004	J0JBC0000070	FILTER	[MAVD]
LB4005	J0JBC0000070	FILTER	[MAVD]
LB5001	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
LB5002	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
LB5003	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
LB5004	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
LB5005	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
LB5006	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
LB7301	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	*2,*3,*4 D0GBR00JA017
LB7303	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	*2,*3,*4 D0GBR00JA017
LB7602	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
LB7603	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
LR1101	J1ZZA0000001	FILTER	
P1102	K2AA2K000012	AC INLET	⚠ [MAVD]
P1501	VJS3837A002	CONNECTOR (FEMALE) 2P	K1KB02A00035
P2501	VJP3835E012	CONNECTOR (MALE) 12P	[MAVD] K1KA12A00127
P2502	VJS3537A009G	CONNECTOR (FEMALE) 9P	K1MN09A00012
P4002	VJS3537A006G	CONNECTOR (FEMALE) 6P	K1MN06A00034
P4003	VJS3837A002	CONNECTOR (FEMALE) 2P	K1KB02A00035
P5001	VJS3537A010G	CONNECTOR (FEMALE) 10P	K1MN10A00036
P6005	VJP1229T	CONNECTOR 2P	K1KA02A00023
P6006	VJP1229T	CONNECTOR 2P	K1KA02A00023
PK0701	VJR0826E009W	CONNECTOR (MALE) 9P	K1MR09A00028
PK7301	VJR0777B007W	CONNECTOR (MALE) 7P	K1MM07B00002
PK7302	VJR0777B006W	CONNECTOR (MALE) 6P	K1MM06B00002
PP0701	VJP3589E004B	CONNECTOR (MALE) 4P	K1KA04B00135
PP3001	VJP3186A018W	CONNECTOR (MAIL) 18P	K1KA18A00046
PP3002	VJP3042G006W	CONNECTOR (MALE) 6P	[MAVD] K1KA06A00164
PP3901	K1KA03A00157	CONNECTOR	[MAVD]
PP3902	VJP3042G014W	CONNECTOR (MALE) 14P	K1KA14A00098
PP3904	VJP3042G016W	CONNECTOR (MALE) 16P	K1KA16A00113
PP3905	VJP3042G014W	CONNECTOR (MALE) 14P	K1KA14A00098
PP3906	VJP3042G015W	CONNECTOR (MALE) 15P	K1KA15A00064
Q0702	2SD0601A-S	CHIP TRANSISTOR	[MAVD]
Q1001	2SD602A-R	TRANSISTOR	2SD0602AR
Q1002	2SC1959-Y	TRANSISTOR	
Q1003	2SB0710A0L	TRANSISTOR	
Q1004	2SD0601A	CHIP TRANSISTOR	[MAVD]
Q1005	2SC1959-Y	TRANSISTOR	
Q1006	2SC1959-Y	TRANSISTOR	
Q1007	2SD602A-R	TRANSISTOR	2SD0602AR
Q1008	2SC1959-Y	TRANSISTOR	
Q1009	2SC1959-Y	TRANSISTOR	
Q1010	2SC1959-Y	TRANSISTOR	
Q1011	2SC1959-Y	TRANSISTOR	
Q1012	2SC1959-Y	TRANSISTOR	
Q1101	2SK2876	TRANSISTOR	[MAVD]
Q1102	B1DEDR000003	TRANSISTOR	
Q1103	2SC3311ASA	TRANSISTOR	
Q1104	2SD1992A-R	TRANSISTOR	
Q1201	PC123ZY2	PHOTO COUPLER	⚠ B3PBA0000078
Q1501	PNB2301MBV	TRANSISTOR	
Q1502	PNB2301MAV	TRANSISTOR	
Q3001	2SB709A	TRANSISTOR	2SB0709A
Q3002	2SB709A	TRANSISTOR	2SB0709A

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
Q3003	2SD0601A	CHIP TRANSISTOR	[MAVD]
Q3007	2SD0601A	CHIP TRANSISTOR	[MAVD]
Q3010	2SD0601A	CHIP TRANSISTOR	[MAVD]
Q3501	2SB709A	TRANSISTOR	2SB0709A
Q3502	2SB709A	TRANSISTOR	2SB0709A
Q4001	2SB0710A0L	TRANSISTOR	
Q4002	2SD602A-R	TRANSISTOR	2SD0602AR
Q4003	2SD1149	TRANSISTOR	
Q4004	2SD0601A	CHIP TRANSISTOR	[MAVD]
Q4005	2SB710A-R	TRANSISTOR	
Q4006	2SD602A-R	TRANSISTOR	2SD0602AR
Q6001	2SD0601A	CHIP TRANSISTOR	[MAVD]
Q6002	2SB709A	TRANSISTOR	2SB0709A
Q6004	2SB709A	TRANSISTOR	2SB0709A
Q6005	XN6501	TRANSISTOR-TRANSISTOR	XN06501
Q6007	2SD1819A0L	TRANSISTOR	
Q6008	2SD0601A	CHIP TRANSISTOR	[MAVD]
Q7601	2SD0601A	CHIP TRANSISTOR	[MAVD] *1
QR1002	UN2212	TRANSISTOR-RESISTOR	UNR2212
QR1003	UNR211200L	TRANSISTOR RESISTOR	[MAVD]
QR1006	UNR221100L	TRANSISTOR RESISTOR	
QR3003	UNR221300L	TRANSISTOR RESISTOR	
QR3005	UN2113	TRANSISTOR-RESISTOR	UNR2113
QR3006	UN2113	TRANSISTOR-RESISTOR	UNR2113
QR3007	UNR221100L	TRANSISTOR RESISTOR	
QR4002	UNR221100L	TRANSISTOR RESISTOR	
QR4003	XN1215	TWIN TRANSISTOR	XN01215
QR4005	UN2111	TRANSISTOR	UNR211100L
QR4501	UN2113	TRANSISTOR-RESISTOR	UNR2113
QR4502	UN2113	TRANSISTOR-RESISTOR	UNR2113
QR4503	XN0121600L	SILICON TRANSISTOR	[MAVD]
QR4504	XN0121600L	SILICON TRANSISTOR	[MAVD]
QR4507	UN2216	TRANSISTOR	UNR2216
QR6001	UN2215	TRANSISTOR-RESISTOR	UNR2215
QR6002	XN1212	TWIN TRANSISTOR	XN01212
QR6003	UNR221100L	TRANSISTOR RESISTOR	
QR6004	UNR221100L	TRANSISTOR RESISTOR	
QR6007	UNR221100L	TRANSISTOR RESISTOR	
R0701	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	*2
R0705	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R0707	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	
R0708	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	
R0709	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	*4
R0711	ERJ3GEYJ181V	M.RESISTOR CH 1/16W 180	
R0713	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R0714	ERJ3GEYJ562V	M.RESISTOR CH 1/16W 5.6K	*4 D0GB562JA002
R0715	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R0717	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	
R0719	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R0725	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	
R0727	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R0728	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	*2

Ref. No.	Part No.	Part Name & Description	Remarks
R0729	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	*1,*2,*3
R0730	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	*1,*3
R0731	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	*4 D0GB101JA002
R0732	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	*4
R0740	ERJ3GEYG471V	M.RESISTOR CH 1/16W 470	*1,*2,*3
R0740	ERJ3GEYG271	M.RESISTOR CH 1/16W 270	*4
R0741	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R0742	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	
R0745	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	
R1001	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	
R1002	ERDS2FJ103	C.RESISTOR 1/4W 10K	
R1003	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	
R1004	ERDS2FJ102	C.RESISTOR 1/4W 1K	
R1005	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	
R1006	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R1007	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R1008	ERDS2FJ471	C.RESISTOR 1/4W 470	
R1009	ERDS2FJ471	C.RESISTOR 1/4W 470	
R1010	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R1011	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	
R1012	ERJ6GEYG622	M.RESISTOR CH 1/10W 6.2K	
R1013	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	
R1014	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R1015	ERDS2TJ682T	C.RESISTOR 1/4W 6.8K	
R1016	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R1017	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R1018	ERJ6GEYG272V	M.RESISTOR CH 1/10W 2.7K	
R1019	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	
R1021	ERJ6GEYG272V	M.RESISTOR CH 1/10W 2.7K	
R1022	ERDS2FJ151	C.RESISTOR 1/4W 150	
R1023	ERDS2FJ103	C.RESISTOR 1/4W 10K	
R1024	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	
R1025	ERDS2FJ151	C.RESISTOR 1/4W 150	
R1102	ERDS2TJ105T	C.RESISTOR 1/4W 1M	
R1103	ERDS2TJ105T	C.RESISTOR 1/4W 1M	
R1104	ERDS2FJ102	C.RESISTOR 1/4W 1K	
R1105	ERDS2FJ101	C.RESISTOR 1/4W 100	
R1106	ERG2SJ331	M.RESISTOR 2W 330	
R1107	ERDS2FJ101	C.RESISTOR 1/4W 100	
R1108	ERX1SJR51	M.RESISTOR 1W 0.51	
R1109	ER0S2CKF1801	M.RESISTOR 1/4W 180	
R1110	ERDS2FJ104	C.RESISTOR 1/4W 100K	
R1111	ERDS2FJ331	C.RESISTOR 1/4W 330	
R1112	ERDS2FJ3R3	C.RESISTOR 1/4W 3.3	
R1113	ERDS2FJ330	C.RESISTOR 1/4W 33	
R1201	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	
R1202	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	
R1203	ERJ6GEYG223V	M.RESISTOR CH 1/10W 22K	
R1204	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	
R1205	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	
R1206	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	
R1207	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	
R1208	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	
R1209	ERJ6GEYG563V	M.RESISTOR CH 1/10W 56K	

Ref. No.	Part No.	Part Name & Description	Remarks
R1501	ERDS2FJ121	C.RESISTOR 1/4W 120	
R1502	ERDS2TJ181	C.RESISTOR 1/4W 180	
R1503	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	
R1504	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	
R1505	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	
R1506	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R2501	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R2502	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	
R2503	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R2504	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R2505	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	
R2506	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	
R2507	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	
R2508	ERJ6GEYG433	M.RESISTOR CH 1/10W 43K	
R2509	ERDS2FJ331	C.RESISTOR 1/4W 330	
R2511	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	
R2512	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	
R2517	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R2518	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R2519	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R2520	ERJ6GEYJ1R2	M.RESISTOR CH 1/10W 1.2	
R2521	ERJ6GEYJ1R5	M.RESISTOR CH 1/10W 1.5	[MAVD]
R2522	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R2523	ERJ6GEYG912	M.RESISTOR CH 1/10W 9.1K	
R3001	ERJ6GEYG622	M.RESISTOR CH 1/10W 6.2K	
R3003	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	
R3005	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	
R3006	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R3012	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	
R3014	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R3018	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	
R3019	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	
R3020	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R3021	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R3022	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	
R3024	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	
R3025	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R3028	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	
R3029	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R3030	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	
R3035	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R3038	ERJ3GEYG152V	M.RESISTOR CH 1/16W 1.5K	
R3039	ERJ6GEYG751	M.RESISTOR CH 1/10W 750	[MAVD]
R3042	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R3043	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R3044	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R3046	ERJ6GEYJ153V	M.RESISTOR CH 1/10W 15K	
R3047	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R3051	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R3053	ERJ3GEYJ560V	M.RESISTOR CH 1/16W 56	
R3054	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R3055	MCR03PZHJ561	M.RESISTOR CH 1/16W 560	
R3062	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	
R3063	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	

Ref. No.	Part No.	Part Name & Description	Remarks
R3064	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	
R3073	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R3074	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R3076	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R3501	ERJ3GEYG222	M.RESISTOR CH 1/16W 2.2K	
R3502	ERJ6GEYG152V	M.RESISTOR CH 1/10W 1.5K	
R3503	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	
R3504	ERJ3GEYG152V	M.RESISTOR CH 1/16W 1.5K	
R3505	ERJ3GEYG332V	M.RESISTOR CH 1/16W 3.3K	
R3506	ERJ3GEYG332V	M.RESISTOR CH 1/16W 3.3K	
R3507	ERJ3GEYG102V	M.RESISTOR CH 1/16W 1K	
R3508	ERJ3GEYG471V	M.RESISTOR CH 1/16W 470	
R3509	ERJ3GEYG102V	M.RESISTOR CH 1/16W 1K	
R3510	ERJ3GEYJ394V	M.RESISTOR CH 1/16W 390K	
R3511	ERJ3GEYG122	M.RESISTOR CH 1/16W 1.2K	
R3512	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R3513	ER0S2CKF3900	M.RESISTOR 1/4W 39	
R4061	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	
R4062	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R4063	ERJ6GEYJ241	M.RESISTOR CH 1/10W 240	
R4065	ERDS2FJ332	C.RESISTOR 1/4W 3.3K	
R4066	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R4067	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	
R4068	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R4069	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	
R4070	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R4071	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R4072	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	
R4081	ERJ6GEYJ752	M.RESISTOR CH 1/10W 7.5K	
R4082	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	
R4084	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R4085	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	
R4086	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	
R4087	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R4088	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R4089	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	
R4090	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R4091	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	
R4501	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	
R4502	ERJ3GEYJ563V	M.RESISTOR CH 1/16W 56K	
R4503	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R4504	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R4505	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R4506	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R4507	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	
R4508	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R4509	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R4510	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R4511	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R4512	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R4513	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	
R4514	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	
R4515	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	
R4516	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	

Ref. No.	Part No.	Part Name & Description	Remarks
R4517	ERJ6GEYJ511	M.RESISTOR CH 1/10W 510	
R4518	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R4519	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	
R4520	ERJ6GEYJ124V	M.RESISTOR CH 1/10W 120K	
R4521	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R4522	ERJ6GEYJ511	M.RESISTOR CH 1/10W 510	
R4523	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R4524	ERJ6GEYJ303	M.RESISTOR CH 1/10W 30K	
R4525	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R4526	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R4530	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	
R4531	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R4532	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	
R4533	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R4534	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	
R4535	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R4536	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	
R4537	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R4538	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R4539	ERJ3GEYJ362	M.RESISTOR CH 1/16W 3.6K	
R4540	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R4543	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R6001	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R6002	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6004	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	
R6005	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R6006	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R6007	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R6008	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	
R6009	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R6010	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R6011	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R6012	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R6013	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R6014	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R6015	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R6016	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	
R6017	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R6018	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R6019	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R6020	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	
R6021	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	
R6022	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	
R6023	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	
R6024	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R6025	ERJ6GEYJ433V	M.RESISTOR CH 1/10W 43K	
R6026	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	
R6027	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R6028	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R6029	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R6030	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R6031	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	
R6032	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R6033	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	

Ref. No.	Part No.	Part Name & Description	Remarks
R6035	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R6036	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R6039	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6040	ERDS2FJ102	C.RESISTOR 1/4W 1K	
R6041	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R6043	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R6045	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	
R6046	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R6047	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R6048	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R6049	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R6051	ERJ6GEYJ564V	M.RESISTOR CH 1/10W 560K	
R6052	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R6053	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	
R6054	ERJ6GEYJ125V	M.RESISTOR CH 1/10W 1.2M	
R6055	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	
R6056	ERJ6GEYJ125V	M.RESISTOR CH 1/10W 1.2M	
R6057	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	
R6058	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	
R6059	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	
R6060	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R6061	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R6062	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R6063	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	
R6064	ERJ6GEYJ225	M.RESISTOR CH 1/10W 2.2M	
R6065	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	
R6066	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	
R6067	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	
R6068	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R6069	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	
R6071	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	
R6072	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R6073	ERJ6GEYJ474V	M.RESISTOR CH 1/10W 470K	
R6074	ERDS2FJ471	C.RESISTOR 1/4W 470	
R6075	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R6076	ERJ6GEYJ153V	M.RESISTOR CH 1/10W 15K	
R6077	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	
R6078	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	
R6081	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R6082	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R7301	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	*1 D0GBR00JA017
R7302	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	*2,*3,*4
R7304	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	*1
R7305	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	*1
R7305	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	*2,*3,*4
R7306	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	*1
R7306	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	*2,*3,*4
R7307	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	*1
R7308	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	*1
R7309	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	*1
R7311	ERJ6GEYJ752	M.RESISTOR CH 1/10W 7.5K	*1
R7312	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	*1
R7313	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	*1
R7314	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	*1

Ref. No.	Part No.	Part Name & Description	Remarks
R7315	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	*1 D0GBR00JA017
R7316	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	*1
R7316	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	*2,*3,*4
R7317	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	*1 D0GBR00JA017
R7318	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	*1 D0GBR00JA017
R7319	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	*1
R7320	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	*1
R7324	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	*2,*3,*4
R7325	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	*2,*3,*4
R7327	ERJ3GEYJ822V	M.RESISTOR CH 1/16W 8.2K	*2,*3,*4 D0GB822JA002
R7328	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	*2,*3,*4
R7329	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	*2,*3,*4
R7501	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	
R7502	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	
R7503	ERJ6GEYJ432V	M.RESISTOR CH 1/10W 4.3K	
R7504	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	
R7505	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	
R7506	ERJ6GEYJ432V	M.RESISTOR CH 1/10W 4.3K	
R7507	ERDS2FJ680	C.RESISTOR 1/4W 68	
R7508	ERDS2FJ680	C.RESISTOR 1/4W 68	
R7509	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	
R7510	ERDS2FJ821	C.RESISTOR 1/4W 820	
R7511	ERDS2FJ821	C.RESISTOR 1/4W 820	
R7512	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R7513	ERJ6GEYJ303	M.RESISTOR CH 1/10W 30K	
R7514	ERJ6GEYJ303	M.RESISTOR CH 1/10W 30K	
R7515	ERJ6GEYJ303	M.RESISTOR CH 1/10W 30K	
R7516	ERJ6GEYJ303	M.RESISTOR CH 1/10W 30K	
R7517	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R7518	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R7519	ERJ6GEYJ432V	M.RESISTOR CH 1/10W 4.3K	
R7521	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R7522	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	
R7523	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	
R7533	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R7534	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	
R7535	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R7536	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	
R7537	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	
R7538	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	
R7601	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R7602	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	
R7603	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	
R7604	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R7605	ERDS2FJ331	C.RESISTOR 1/4W 330	
R7606	ERDS2FJ331	C.RESISTOR 1/4W 330	
R7607	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R7608	ERJ6GEYJ151V	M.RESISTOR CH 1/10W 150	
R7609	ERDS2FJ101	C.RESISTOR 1/4W 100	
R7610	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	
R7612	ERJ6GEYJ151V	M.RESISTOR CH 1/10W 150	
R7613	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	*1
R7614	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	*1
R7615	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	

Ref. No.	Part No.	Part Name & Description	Remarks
R7616	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	
R7655	ERDS2FJ222	C.RESISTOR 1/4W 2.2K	
S1501	K0G934A00002	SWITCH	K0ZZ00000452
S1502	VST0325	CASSETTE DET. SWITCH	K0L1BA000026
S7501	EVQ11G07K	SWITCH	
S7502	EVQ11G07K	SWITCH	
S7503	EVQ11404M	SWITCH	
S7504	EVQ11404M	SWITCH	
S7505	EVQ11L07B	SWITCH	
S7507	K0C111A00003	SWITCH	
S7509	EVQ11L07B	SWITCH	
S7510	EVQ11G07K	SWITCH	
S7511	EVQ11L07B	SWITCH	
S7512	EVQ11G07K	SWITCH	
S7513	EVQ11L07B	SWITCH	
S7514	EVQ11G07K	SWITCH	
S7515	EVQ11L07B	SWITCH	
T0701	EQV5EC082P	TRANSFORMER	*1,*3
T0701	EQV5EC083P	TRANSFORMER	*2
T0701	EQV5EC081P	TRANSFORMER	*4
T1101	ETS29AZ286AC	SWITCHING TRANSFORMER	⚠ [MAVD]
T4001	EQQ7QF025P	TRANSFORMER	
T4002	EQQ7QF026P	TRANSFORMER	
TU7601	ENG47327G1	TUNER	⚠ [MAVD] *1,*3
TU7601	ENG47328G1	TUNER	⚠ [MAVD] *2
TU7601	ENG47329G1	TUNER	⚠ [MAVD] *4
VR0701	EVNCYAA03B14	V.RESISTOR 10K	
VR7301	EVNCYAA03B14	V.RESISTOR 10K	*1
W504	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	*2,*3,*4
X0701	VLF1416	FILTER	*1,*3 J0B4045A0002
X0701	VLF1417	FILTER	*2 J0B4155A0003
X0701	VLF1430	TRANSFORMER	*4 J0B3955A0001
X0702	VLF1431	TRANSFORMER	*4 J0B4055A0001
X0704	VLF1493	FILTER	*1,*3
X0704	VLF1495	FILTER	*2
X0704	VLF1497	TRANSFORMER	*4
X3001	H0D443400031	CRYSTAL OSCILLATOR	[MAVD]
X6001	VSX1022	CRYSTAL OSCILLATOR	
X6002	H0H200500011	CRYSTAL OSCILLATOR	[MAVD]
X7301	H0H400400006	CRYSTAL OSCILLATOR	*1
X7302	H0D245500016	CRYSTAL OSCILLATOR	[MAVD] *2,*3,*4
		MISCELLANEOUS	
	K3GD9BB00001	FUSE HOLDER	
	K3GD9BB00001	FUSE HOLDER	
	VMP6823	INLET ANGLE	[MAVD]
	VSC5227	HA CASE	[MAVD]

Ref. No.	Part No.	Part Name & Description	Remarks
	VSC4998	HA ANGLE	
	VMT0077	CUSHION	
	VMP4894	SUPPORT ANGLE	*1 FOR DECODER C.B.A.
	VSC4752	SHIELD CASE (MAIN)	*2,*3,*4 FOR NICAM DECODER C.B.A.
	VMP5897	CONNECTING ANGLE	FOR TV DEMODULATOR C.B.A.
■	VEP03G10A	INPUT/OUTPUT C.B.A.	(RTL)[MAVD]
C3901	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	
C3902	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	
C3903	ECJ1VC1H040C	C.CAPACITOR CH 50V 4P	[MAVD]
C3904	ECJ1VC1H150J	C.CAPACITOR CH 50V 15P	
C3905	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3906	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3907	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3908	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3909	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3910	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C3911	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3912	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3913	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3914	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3915	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3916	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3917	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3918	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3919	ECEA0JKS331	E.CAPACITOR 6.3V 330U	
C3920	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C3921	ECEA0JKS331	E.CAPACITOR 6.3V 330U	
C3922	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3923	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3924	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	
C3926	ECJ2VF1H104Z	C.CAPACITOR CH 50V 0.1U	
C3927	ECEA0JKS331	E.CAPACITOR 6.3V 330U	
C3928	ECJ2VF1H104Z	C.CAPACITOR CH 50V 0.1U	
C4901	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	
C4902	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	
C4903	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	ECJ1XC1H471J
C4904	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	ECJ1XC1H471J
C4907	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	
C4908	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	
C4909	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	ECJ1XC1H471J
C4910	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	ECJ1XC1H471J
C4916	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	ECJ1XC1H471J
C4918	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	ECJ1XC1H471J
D3901	MA2C165001VT	DIODE	
D3902	MA4075N-M	DIODE	
D3903	MA4075N-M	DIODE	
IC3901	C1AB00001614	IC	[MAVD]

Ref. No.	Part No.	Part Name & Description	Remarks
JK4901	VJS1470	CONNECTOR (FEMALE) 21P	K1FB121A0002
JK4902	VJS1470	CONNECTOR (FEMALE) 21P	K1FB121A0002
JK4903	VJJ0416	JACK	K2HA307A0001
JK4904	VJJ0574	S TERMINAL	K1CB104A0009
K3901	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3905	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3907	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3917	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3920	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3921	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K3922	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
K4903	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
L3901	G0C330JA0019	INDUCTOR	
L3902	VLQ0163J390	COIL 39UH	G1C390J00001
L3903	VLQ0163J820	COIL 82UH	G1C820J00002
L4901	VLQ0599JR22	COIL 0.22UH	
LB4901	J0JBC0000041	FILTER	
LB4902	J0JBC0000041	FILTER	
LB4903	J0JBC0000041	FILTER	
LB4904	J0JBC0000041	FILTER	
LB4905	J0JBC0000041	FILTER	
LB4906	J0JBC0000041	FILTER	
LB4908	J0JBC0000041	FILTER	
LB4909	J0JBC0000041	FILTER	
LB4910	J0JBC0000041	FILTER	
LB4911	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
LB4912	J0JBC0000041	FILTER	
LB4913	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
PS3901	K1KB03B00007	CONNECTOR	[MAVD]
PS3902	VJS3042F014W	CONNECTOR (FEMALE) 14P	K1KB14B00018
PS3904	VJS3042F016W	CONNECTOR (FEMALE) 16P	K1KB16B00023
PS3905	VJS3042F014W	CONNECTOR (FEMALE) 14P	K1KB14B00018
Q3901	2SD0601A	CHIP TRANSISTOR	[MAVD]
Q3902	2SD0601A	CHIP TRANSISTOR	[MAVD]
Q3903	2SD0601A	CHIP TRANSISTOR	[MAVD]
Q3904	2SD0601A	CHIP TRANSISTOR	[MAVD]
Q4901	2SD13280VL	TRANSISTOR	
QR3901	UN2212	TRANSISTOR-RESISTOR	UNR2212
QR3902	UN2215	TRANSISTOR-RESISTOR	UNR2215
R3901	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R3902	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R3903	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R3904	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R3905	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	
R3906	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R3907	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	
R3908	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	

Ref. No.	Part No.	Part Name & Description	Remarks
R3909	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	
R3910	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R3912	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R3913	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R3914	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	
R3915	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	
R3916	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	
R3917	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R3918	ERJ6GEYJ474V	M.RESISTOR CH 1/10W 470K	
R3919	ERDS2FJ471	C.RESISTOR 1/4W 470	
R3920	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R3921	ERJ6GEYJ153V	M.RESISTOR CH 1/10W 15K	
R3922	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R3923	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R3927	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R3928	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R4901	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R4902	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R4904	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R4905	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R4906	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R4907	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R4908	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R4915	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R4916	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R4917	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R4918	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R4919	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
S4901	VSS0513	SLIDE SWITCH	K0D142A00023
		MISCELLANEOUS	
	XTV3+8GFZ	SCREW	
	XTV3+8GFZ	SCREW	
	XTV3+8GFZ	SCREW	
	VMC1737	RF EARTH SPRING	[MAVD]
	VJH1196	JACK BOARD	[MAVD]
■	VEP03G11A	TBC/DNR C.B.A.	(RTL)[MAVD] *1,*3,*4
■	VEP03G11B	TBC/DNR C.B.A.	(RTL)[MAVD] *2
C3301	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3302	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3303	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3304	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	*1,*3,*4
C3305	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3306	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3307	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3308	ECJ1VB1H152K	C.CAPACITOR CH 50V 1500P	
C3309	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3310	ECEA0JKS470	E.CAPACITOR 6.3V 47U	

Ref. No.	Part No.	Part Name & Description	Remarks
C3311	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3312	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3313	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3314	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3315	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3316	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3317	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3318	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3319	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3320	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3321	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C3322	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3323	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C3324	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C3325	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C3326	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3327	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	
C3328	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3329	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3330	ECJ1VB1H822K	C.CAPACITOR CH 50V 8200P	
C3331	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3332	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C3333	ECJ1VC1H120J	C.CAPACITOR CH 50V 12P	
C3334	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	
C3337	ECEA1CKS470B	E.CAPACITOR 16V 47U	[MAVD]
C3338	ECJ1VC1H120J	C.CAPACITOR CH 50V 12P	
C3340	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	
C3341	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3342	ECJ1VC1H120J	C.CAPACITOR CH 50V 12P	
C3343	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	
C3344	ECJ1VC1H120J	C.CAPACITOR CH 50V 12P	
C3345	ECJ1VC1H120J	C.CAPACITOR CH 50V 12P	
C3346	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	
C3347	ECJ1VC1H120J	C.CAPACITOR CH 50V 12P	
C3348	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C3349	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3350	ECEA1CKS100	E.CAPACITOR 16V 10U	
C3351	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C3352	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3353	ECEA0JKS470	E.CAPACITOR 6.3V 47U	
C3354	ECJ1VC1H030C	C.CAPACITOR CH 50V 3P	
C3355	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	
C3356	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	*1,*3,*4
C3357	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	*1,*3,*4
C3358	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	*1,*3,*4
C3359	ECEA1CKS100	E.CAPACITOR 16V 10U	*1,*3,*4
C3360	ECEA1CKS100	E.CAPACITOR 16V 10U	*1,*3,*4
C3361	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	*1,*3,*4 ECJ1XC1H561J
C3362	ECJ1VF1C104Z	C.CAPACITOR CH 16V 0.1U	
C3363	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	*1,*3,*4
C3364	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	*1,*3,*4
C3365	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	*1,*3,*4
C3366	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	*1,*3,*4
C3367	ECJ1VF1H103Z	C.CAPACITOR CH 50V 0.01U	*1,*3,*4

Ref. No.	Part No.	Part Name & Description	Remarks
C3368	ECJ1VC1H120J	C.CAPACITOR CH 50V 12P	*1,*3,*4
C3369	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	*1,*3,*4 ECJ1XC1H390J
C3371	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	ECJ1XC1H390J
C3372	ECUX1H300JCV	C.CAPACITOR CH 50V 30P	
IC3301	C1AB00001631	IC	[MAVD]
IC3302	C0EBE0000205	IC	[MAVD]
IC3303	C0DBCFD00001	IC	
IC3304	C1AB00001486	IC	[MAVD] *1,*3,*4
IC3305	C1AB00001340	IC	[MAVD] *1,*3,*4
			C1AB00001341
IC3306	MM1113XFF	IC	[MAVD] *1,*3,*4
			C1AB00000601
K3301	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	*2
K3302	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3303	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3304	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	*2
K3305	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3306	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3307	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3308	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3309	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3310	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3312	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3313	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3314	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3315	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3316	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3324	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3325	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
K3327	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
L3301	VLQ0599J270	COIL 27UH	G0C270JA0026
L3304	G0C220JA0019	INDUCTOR	
L3305	G0C220JA0019	INDUCTOR	
L3306	VLQ0599J270	COIL 27UH	G0C270JA0026
L3307	VLQ0599J270	COIL 27UH	G0C270JA0026
L3308	G0C220JA0019	INDUCTOR	
L3309	G0C101JA0019	INDUCTOR	*1,*3,*4
L3310	VLQ0599J150	COIL 15UH	*1,*3,*4 G0C150JA0026
L3311	VLQ0599J470	COIL 47UH	*1,*3,*4 G0C470JA0026
L3312	VLQ0163J390	COIL 39UH	G1C390J00001
L3313	VLQ0163J330	COIL 33UH	G1C330J00004
LB3301	J0JCC0000077	FILTER	
LB3303	J0JCC0000077	FILTER	
LB3304	J0JCC0000077	FILTER	
LB3305	J0JCC0000077	FILTER	
LB3306	J0JCC0000077	FILTER	
LB3307	J0JCC0000077	FILTER	
LB3308	J0JCC0000077	FILTER	
LB3309	J0JCC0000077	FILTER	
LB3310	J0JCC0000077	FILTER	

Ref. No.	Part No.	Part Name & Description	Remarks
LB3311	J0JCC0000077	FILTER	
PS3301	VJS3042F006W	CONNECTOR (FEMALE) 6P	K1KB06B00024
PS3302	VJS3186B018	CONNECTOR (FEMALE) 18P	K1KB18B00016
Q3301	2SD1819A0L	TRANSISTOR	
Q3302	2SB1218A0L	TRANSISTOR	
Q3303	2SD1819A0L	TRANSISTOR	
Q3304	2SB1218A0L	TRANSISTOR	
Q3305	2SD1819A0L	TRANSISTOR	*1,*3,*4
Q3306	2SB1218A0L	TRANSISTOR	*1,*3,*4
Q3307	2SD1819A0L	TRANSISTOR	
Q3308	2SD1819A0L	TRANSISTOR	
Q3309	2SB1218A0L	TRANSISTOR	*1,*3,*4
Q3310	2SD1819A0L	TRANSISTOR	
Q3311	2SD1819A0L	TRANSISTOR	
Q3312	2SB1218A0L	TRANSISTOR	
Q3313	2SB1218A0L	TRANSISTOR	
Q3314	2SD1819A0L	TRANSISTOR	
Q3315	2SB1218A0L	TRANSISTOR	
Q3316	2SD1819A0L	TRANSISTOR	*1,*3,*4
Q3317	2SB1218A0L	TRANSISTOR	*1,*3,*4
Q3318	2SD1819A0L	TRANSISTOR	*1,*3,*4
Q3319	2SB1218A0L	TRANSISTOR	*1,*3,*4
Q3320	2SD1819A0L	TRANSISTOR	*1,*3,*4
Q3321	2SB1218A0L	TRANSISTOR	*1,*3,*4
QR3301	DTC363EK	DIGITAL TRANSISTOR	
R3301	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	
R3302	ERJ3GEYJ333V	M.RESISTOR CH 1/16W 33K	D0GB333JA002
R3303	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R3305	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R3306	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R3307	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	
R3308	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	
R3309	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	
R3310	ERJ3GEYG102V	M.RESISTOR CH 1/16W 1K	
R3311	ERJ3GEYG102V	M.RESISTOR CH 1/16W 1K	
R3312	ERJ3GEYG202	M.RESISTOR CH 1/16W 2K	
R3313	ERJ3GEYG152V	M.RESISTOR CH 1/16W 1.5K	
R3314	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R3315	ERJ3GEYG201	M.RESISTOR CH 1/16W 200	
R3316	ERJ3GEYG621	M.RESISTOR CH 1/16W 620	
R3317	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R3318	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R3319	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	
R3320	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R3321	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R3322	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R3323	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R3324	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	
R3325	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	
R3326	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	

Ref. No.	Part No.	Part Name & Description	Remarks
R3327	ERJ3GEYJ122V	M.RESISTOR CH 1/16W 1.2K	
R3328	ERJ3GEYJ122V	M.RESISTOR CH 1/16W 1.2K	
R3329	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	
R3330	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R3331	ERJ3GEYG911	M.RESISTOR CH 1/16W 910	
R3332	ERJ3GEYG102V	M.RESISTOR CH 1/16W 1K	
R3333	ERJ3GEYG621	M.RESISTOR CH 1/16W 620	
R3334	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	
R3335	ERJ3GEYG561	M.RESISTOR CH 1/16W 560	
R3336	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	*1,*3,*4
R3337	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	*1,*3,*4
R3338	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	*1,*3,*4
R3339	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R3340	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R3343	ERJ3GEYG102V	M.RESISTOR CH 1/16W 1K	*1,*3,*4
R3344	ERJ3GEYG112	M.RESISTOR CH 1/16W 1.1K	*1,*3,*4
R3345	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	*1,*3,*4
R3346	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	*1,*3,*4
R3347	ERJ3GEYG101	M.RESISTOR CH 1/16W 100	*1,*3,*4
R3348	ERJ3GEYG301	M.RESISTOR CH 1/16W 300	*1,*3,*4
R3349	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	*1,*3,*4 D0GB101JA002
R3350	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	*1,*3,*4
R3351	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	*1,*3,*4
R3352	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	*1,*3,*4
R3353	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	*1,*3,*4
R3354	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	*1,*3,*4
R3355	ERJ3GEYJ151V	M.RESISTOR CH 1/16W 150	*1,*3,*4
R3356	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	*1,*3,*4 D0GB101JA002
R3357	ERJ3GEYG111	M.RESISTOR CH 1/16W 110	*1,*3,*4
R3358	ERJ3GEYG121	M.RESISTOR CH 1/16W 120	*1,*3,*4
R3359	MCR03PZHJ561	M.RESISTOR CH 1/16W 560	*1,*3,*4
R3360	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	*1,*3,*4
R3361	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	*1,*3,*4
R3363	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	ERJ3GEYJ680V
R3364	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	D0GB101JA002
R3365	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	D0GB101JA002
		MISCELLANEOUS	
	VSC5228	SHIELD CASE (A)	[MAVD]
	VSC5229	SHIELD CASE (B)	[MAVD]
	XTV26+6F	SCREW	
	XTV26+6F	SCREW	
	VMT0543	CUSHION	[MAVD]
■	VEP04800C	FRONT C.B.A.	(RTL)[MAVD]
C4803	ECKT1H102KB	C.CAPACITOR 50V 1000P	
C4804	ECKT1H102KB	C.CAPACITOR 50V 1000P	
C4805	ECQV1H104JL3	P.CAPACITOR 50V 0.1U	
IC4801	PNA4618M10VT	IC	[MAVD]

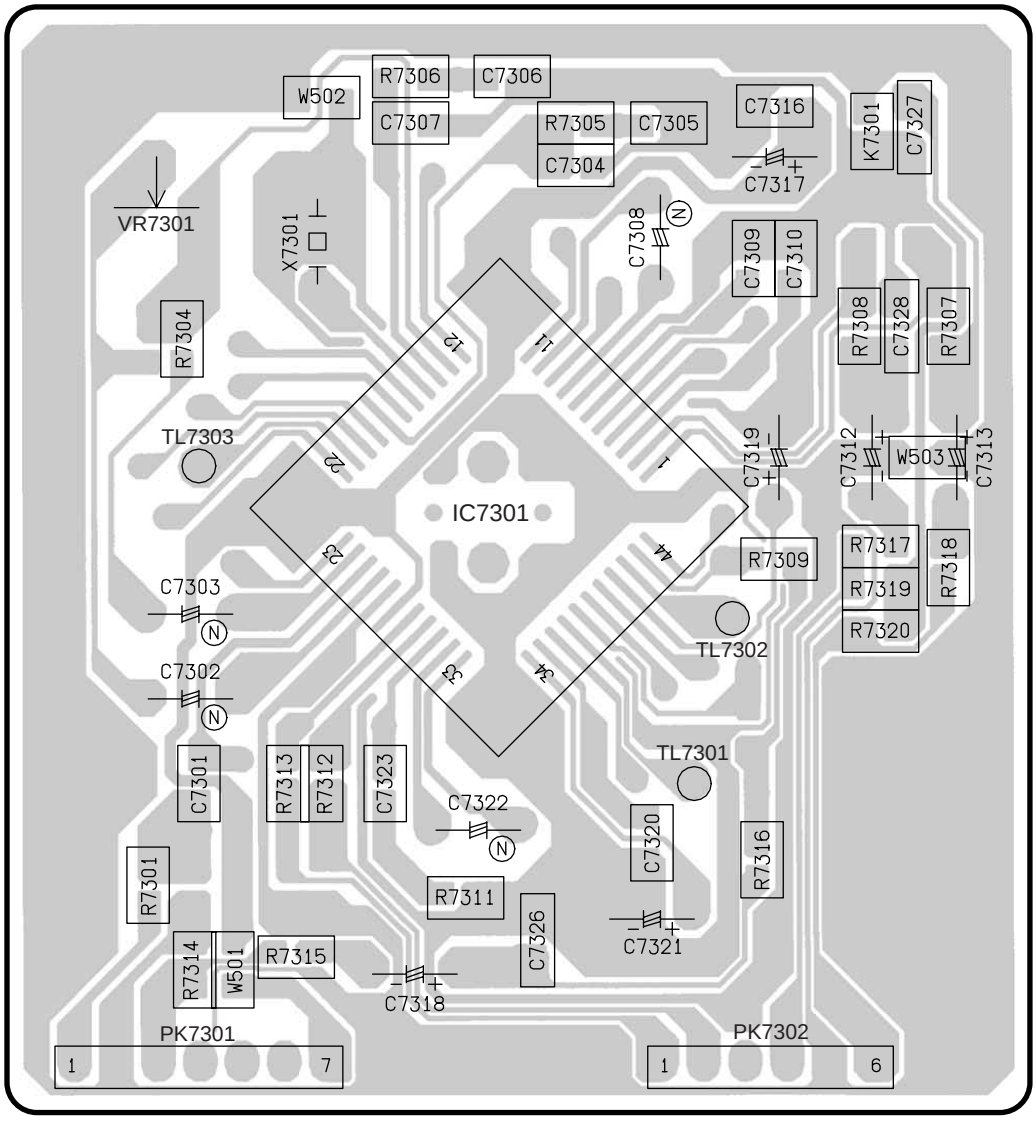
Ref. No.	Part No.	Part Name & Description	Remarks
JK4801	K2HA307A0003	JACK	[MAVD]
JK4802	VJJ0574	S TERMINAL	K1CB104A0009
PS4801	VJS3042F015W	CONNECTOR (FEMALE) 15P	K1KB15B00013
R4801	ERDS2FJ750	C.RESISTOR 1/4W 75	
R4802	ERDS2FJ471	C.RESISTOR 1/4W 470	
R4803	ERDS2FJ471	C.RESISTOR 1/4W 470	
R4804	ERDS2FJ750	C.RESISTOR 1/4W 75	
R4805	ERDS2FJ750	C.RESISTOR 1/4W 75	
R4807	ERDS2FJ822	C.RESISTOR 1/4W 8.2K	
R4808	ERDS2FJ562	C.RESISTOR 1/4W 5.6K	
S4801	EVQ11L07B	SWITCH	
S4802	EVQ11L07B	SWITCH	
S4803	EVQ11L07B	SWITCH	
		MISCELLANEOUS	
	VMC1721	EARTH SPRING	[MAVD]
	VGQ6104	FRONT PCB HOLDER(L)	
■	VEP06E69A	LED (R) C.B.A.	(RTL)[MAVD]
D6901	LMW9A8BYB0A1	DIODE	
P6901	VJP1229T	CONNECTOR 2P	K1KA02A00023
		MISCELLANEOUS	
	VMD4553	LED HOLDER	[MAVD]
■	VEP06E85A	LED (L) C.B.A.	(RTL)[MAVD]
D6801	LMW9A8BYB0A1	DIODE	
P6801	VJP1229T	CONNECTOR 2P	K1KA02A00023
		MISCELLANEOUS	
	VMD4553	LED HOLDER	[MAVD]
■	----------	CYLINDER STATOR C.B.A.	
		MISCELLANEOUS	
	VJS3537F009G	CONNECTOR (FEMALE) 9P	K1MN09B00039
	HW-300A-DF	HALL IC	B4AAB0000007

12. SCHEMATIC DIAGRAM FOR PRINTING WITH A4 SIZE

DECODER PACK C.B.A.	
Integrated Circuit	
IC7301	B-2
Test Point	
TL7301	A-2
TL7302	B-2
TL7303	B-1
Adjustment	
VR7301	C-1
Connector	
PK7301	A-1
PK7302	A-2

ADDRESS INFORMATION

(VEP07A16A:NV-HS880EG)

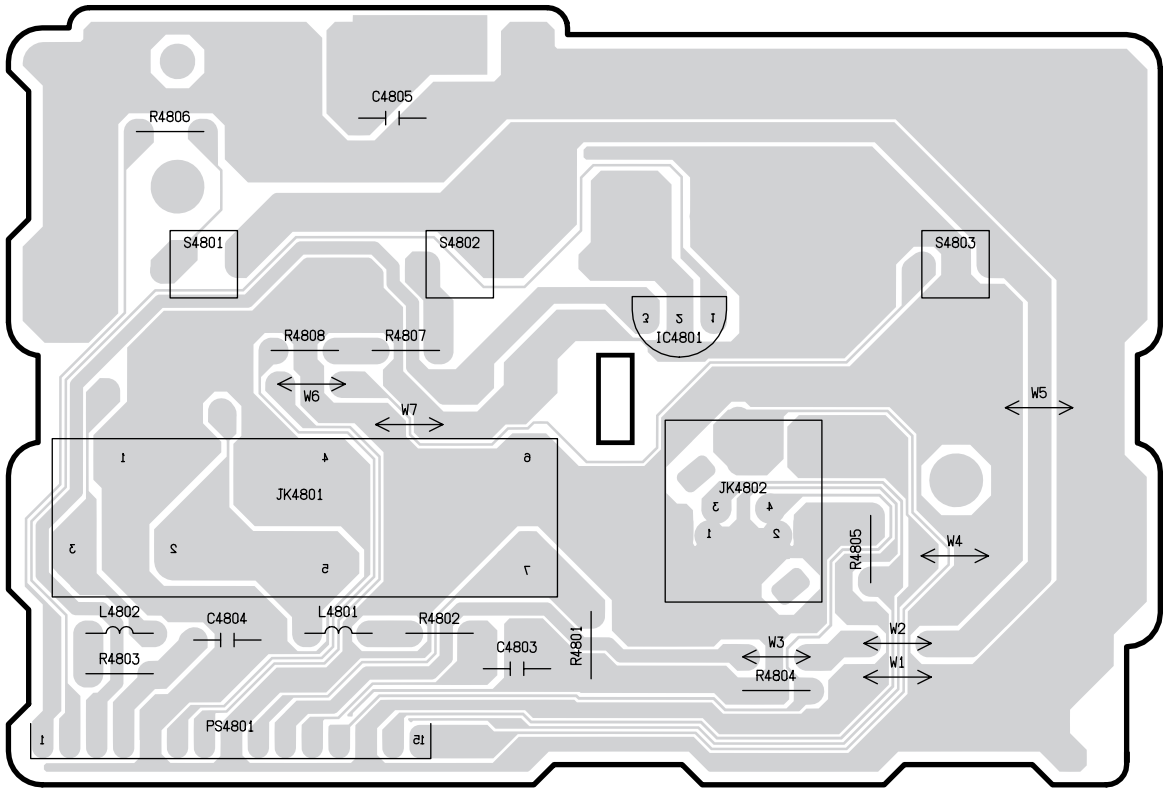


NV-HS880EG
DECODER PACK C.B.A.

AV FRONT C.B.A.	
Integrated Circuit	
IC4801	B-3
Connector	
PS4801	A-1

ADDRESS INFORMATION

(VEP04800C)

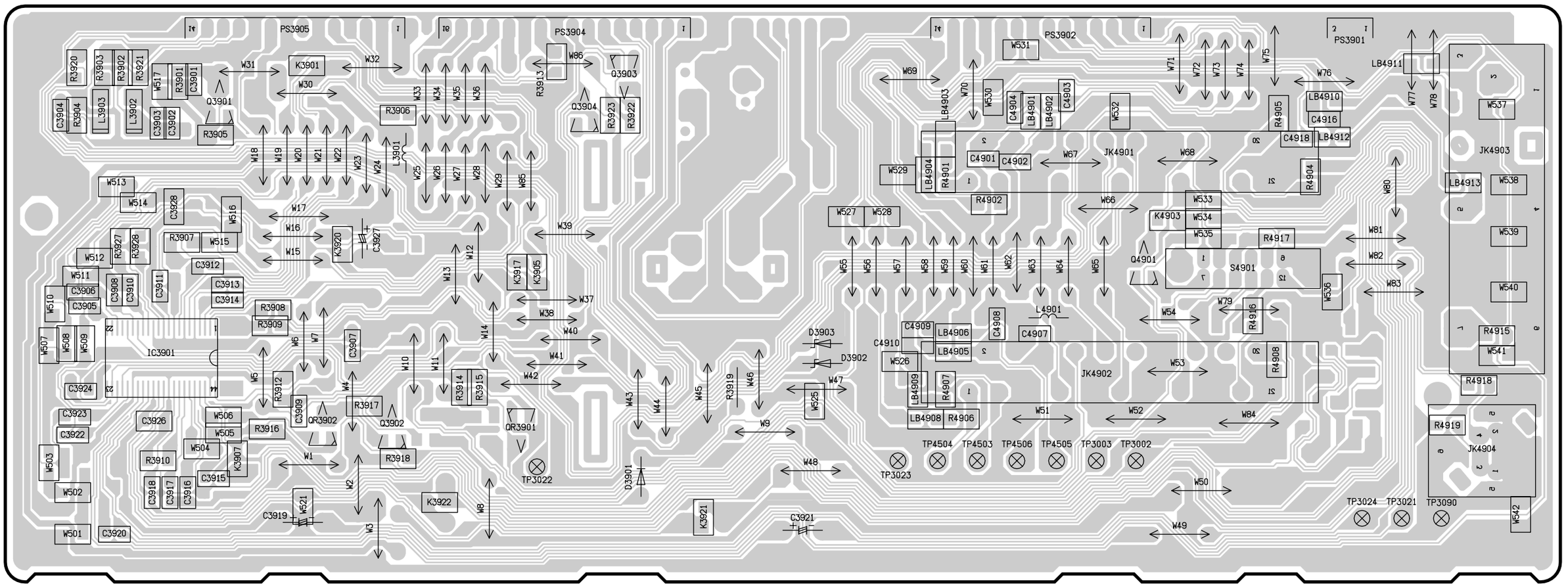


NV-HS880EG/B/EC/EE
AV FRONT C.B.A.

INPUT/OUTPUT PACK C.B.A.			
Transistor		**Test Point**	
Q3901	D-2	TP3002	B-7
Q3902	B-3	TP3003	B-7
Q3903	D-4	TP3021	A-9
Q3904	D-4	TP3022	B-4
Q4901	C-7	TP3023	B-6
Transistor & Resistor		TP3024	A-8
QR3901	B-4	TP3090	A-9
QR3902	B-3	TP4503	B-6
Integrated Circuit		TP4504	B-6
IC3901	B-2	TP4505	B-7
		TP4506	B-6
		Connector	
		PS3901	D-8
		PS3902	D-7
		PS3904	D-4
		PS3905	D-2

ADDRESS INFORMATION

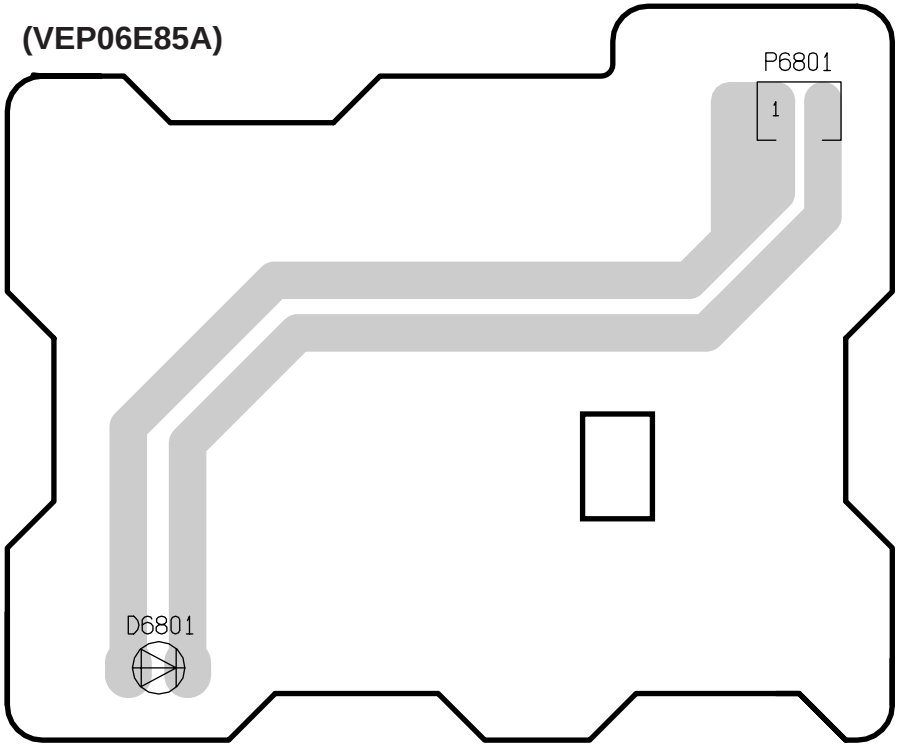
(VEP03G10A)



NV-HS880EG/B/EC/EE
INPUT/OUTPUT PACK C.B.A.

LED (L) C.B.A.	
Connector	
P6801	C-3

ADDRESS INFORMATION

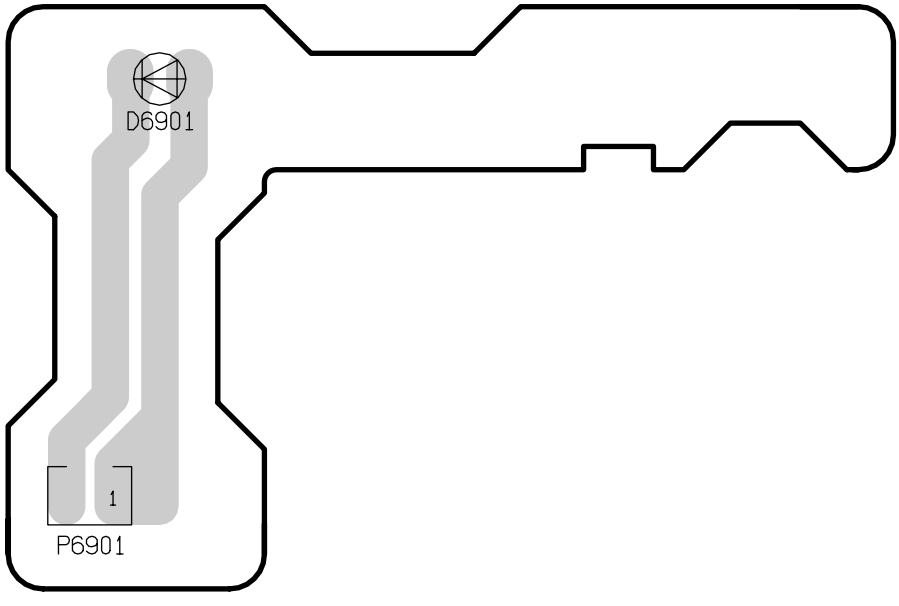


NV-HS880EG/B/EC/EE
LED (L) C.B.A.

(VEP06E69A)

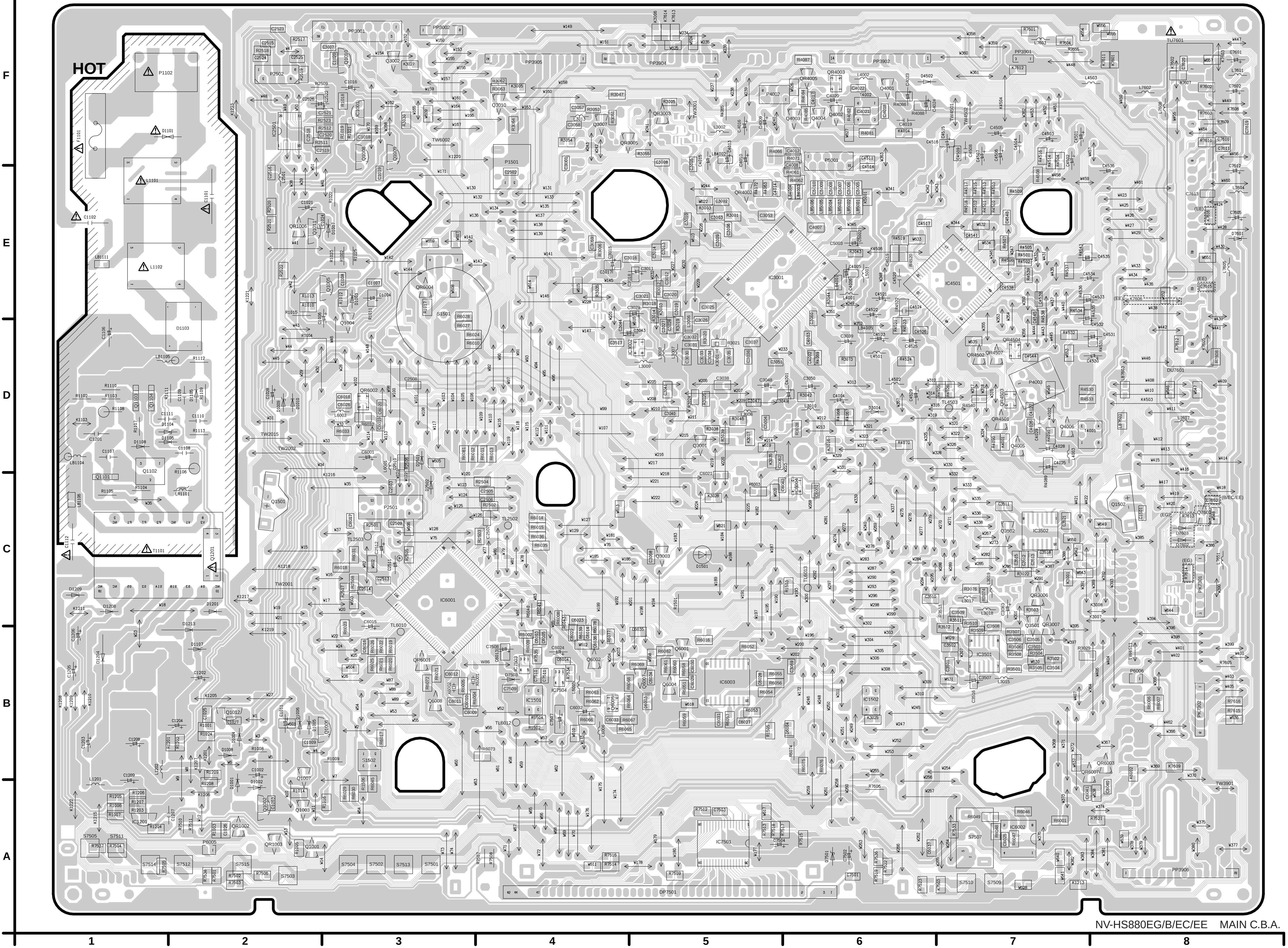
LED (R) C.B.A.	
Connector	
P6901	A-1

ADDRESS INFORMATION



NV-HS880EG/B/EC/EE
LED (R) C.B.A.

(VEP06E67J:NV-HS880EG)(VEP06E67K:NV-HS880B)(VEP06E67L:NV-HS880EC)(VEP06E67N:NV-HS880EE)



NV-HS880EG/B/EC/EE MAIN C.B.A.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION

THE STRIPED FRAME INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

MAIN C.B.A.

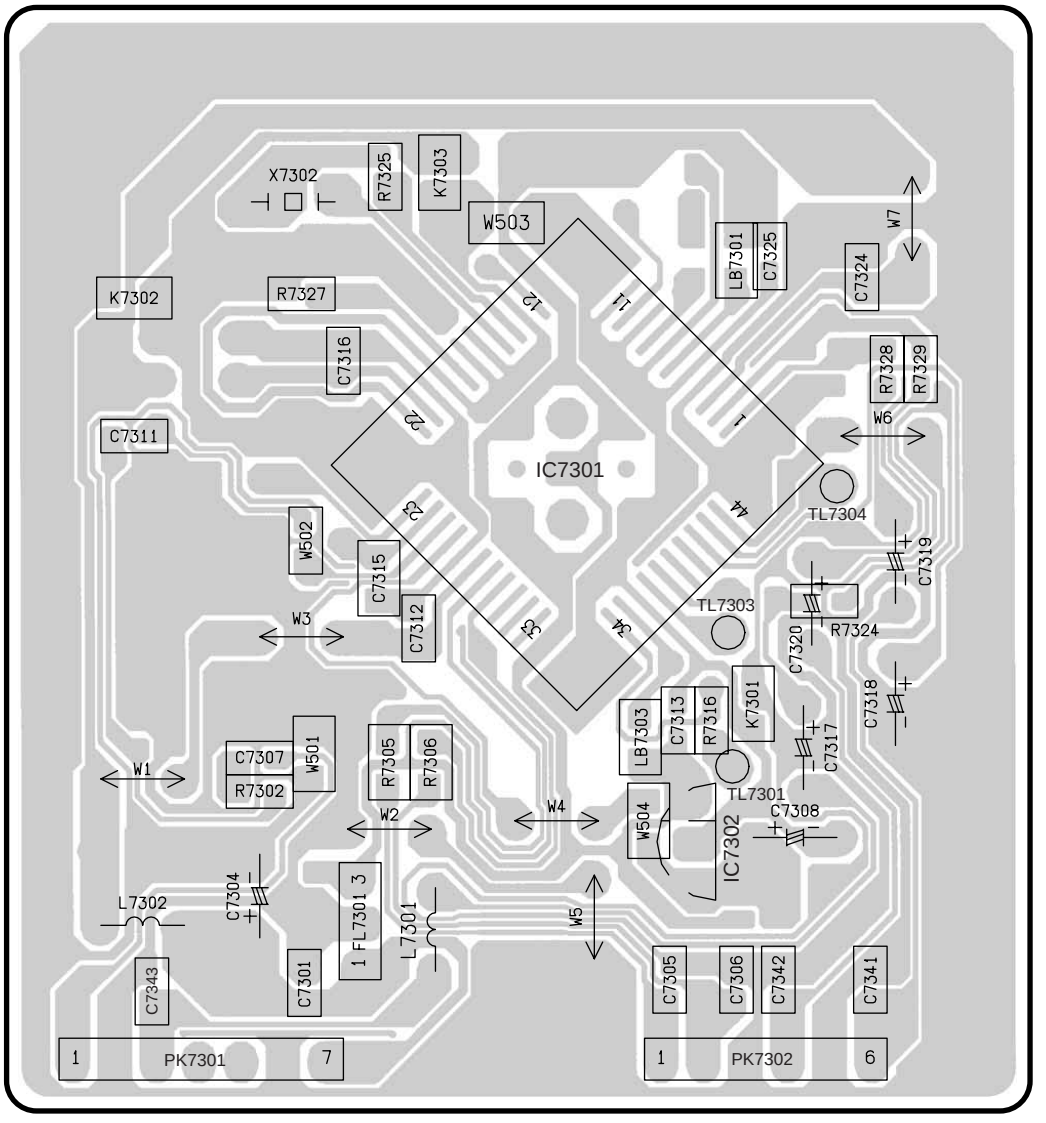
Transistor		**Transistor & Resistor**		**Test Point**	
Q1001	A-2	QR1002	A-2	TL2502	C-4
Q1002	A-2	QR1003	A-2	TL2503	C-3
Q1003	A-2	QR1006	E-2	TL4503	D-7
Q1004	D-3	QR3003	F-5	TL6010	B-3
Q1005	E-3	QR3005	F-4	TL6012	B-4
Q1006	B-3	QR3006	C-7	TL6013	C-6
Q1007	B-2	QR3007	C-7	TW2001	C-2
Q1008	F-3	QR4002	E-5	TW2002	D-2
Q1009	F-3	QR4003	F-6	TW2015	D-2
Q1010	F-3	QR4005	F-6	TW3001	F-5
Q1011	E-2	QR4501	D-7	TW3901	A-8
Q1012	B-2	QR4502	D-7	TW4501	F-7
Q1101	C-1	QR4503	D-7	TW4502	F-7
Q1102	D-1	QR4504	D-7	TW4511	B-8
Q1103	D-1	QR4507	D-7	TW6002	F-3
Q1104	D-1	QR6001	B-3	**Connector**	
Q1201	C-2	QR6002	D-3	P1102	F-1
Q1501	C-2	QR6003	B-8	P1501	F-4
Q1502	C-8	QR6004	E-3	P2501	C-3
Q3001	D-5	QR6007	B-7	P2502	F-2
Q3002	F-3	**Integrated Circuit**		P4002	F-5
Q3003	C-5	IC1001	F-3	P4003	D-7
Q3007	F-4	IC1201	A-1	P5001	F-6
Q3010	F-4	IC1501	B-4	P6005	A-2
Q3501	C-7	IC1502	B-6	P6006	B-8
Q3502	C-7	IC2501	F-2	PK7301	C-8
Q4001	F-6	IC3001	E-5	PK7302	B-8
Q4002	F-6	IC3002	D-5	PP3001	F-3
Q4003	F-6	IC3501	B-7	PP3002	F-3
Q4004	F-6	IC3502	C-7	PP3901	F-7
Q4005	D-7	IC4501	E-7	PP3902	F-6
Q4006	D-7	IC6001	C-3	PP3904	F-5
Q6001	B-5	IC6002	A-7	PP3905	F-4
Q6002	B-4	IC6003	B-5	PP3906	A-8
Q6004	B-5	IC6004	C-6	DU7601	D-8
Q6005	B-4	IC7501	A-5	TU7601	F-8
Q6007	B-5	IC7503	B-4		
Q6008	B-3	IC7504	B-4		
Q7601	C-8				

ADDRESS INFORMATION

NICAM DECODER PACK C.B.A.	
Integrated Circuit	
IC7301	B-2
IC7302	A-2
Test Point	
TL7301	A-2
TL7303	B-2
TL7304	B-2
Integrated Circuit	
PK7301	A-1
PK7302	A-2

ADDRESS INFORMATION

(VEP07A18X:NV-HS880B)
(VEP07A18R:NV-HS880EC)
(VEP07A18T:NV-HS880EE)



NV-HS880B/EC/EE
NICAM DECODER PACK C.B.A.

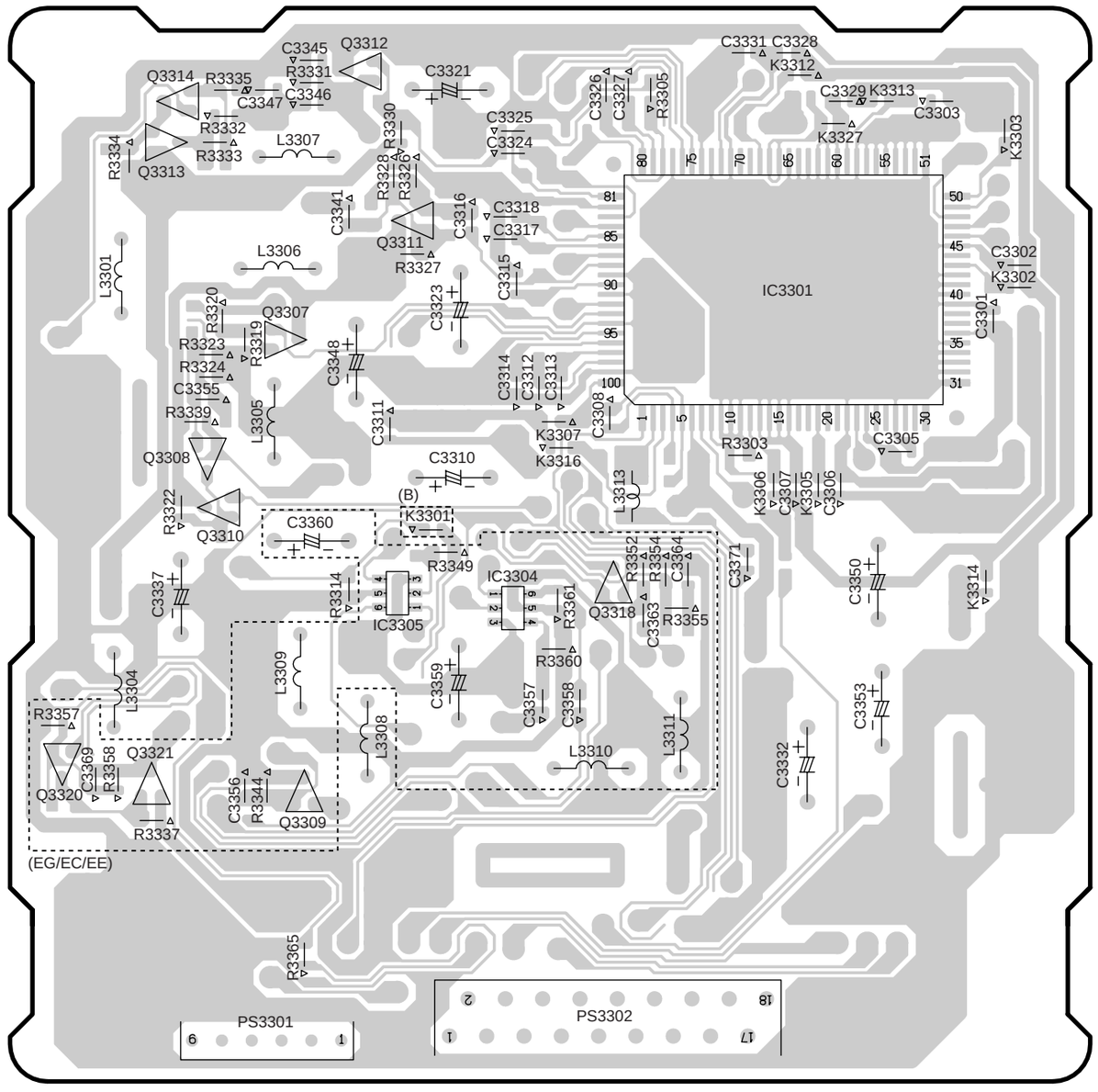
C B A

1 2 3

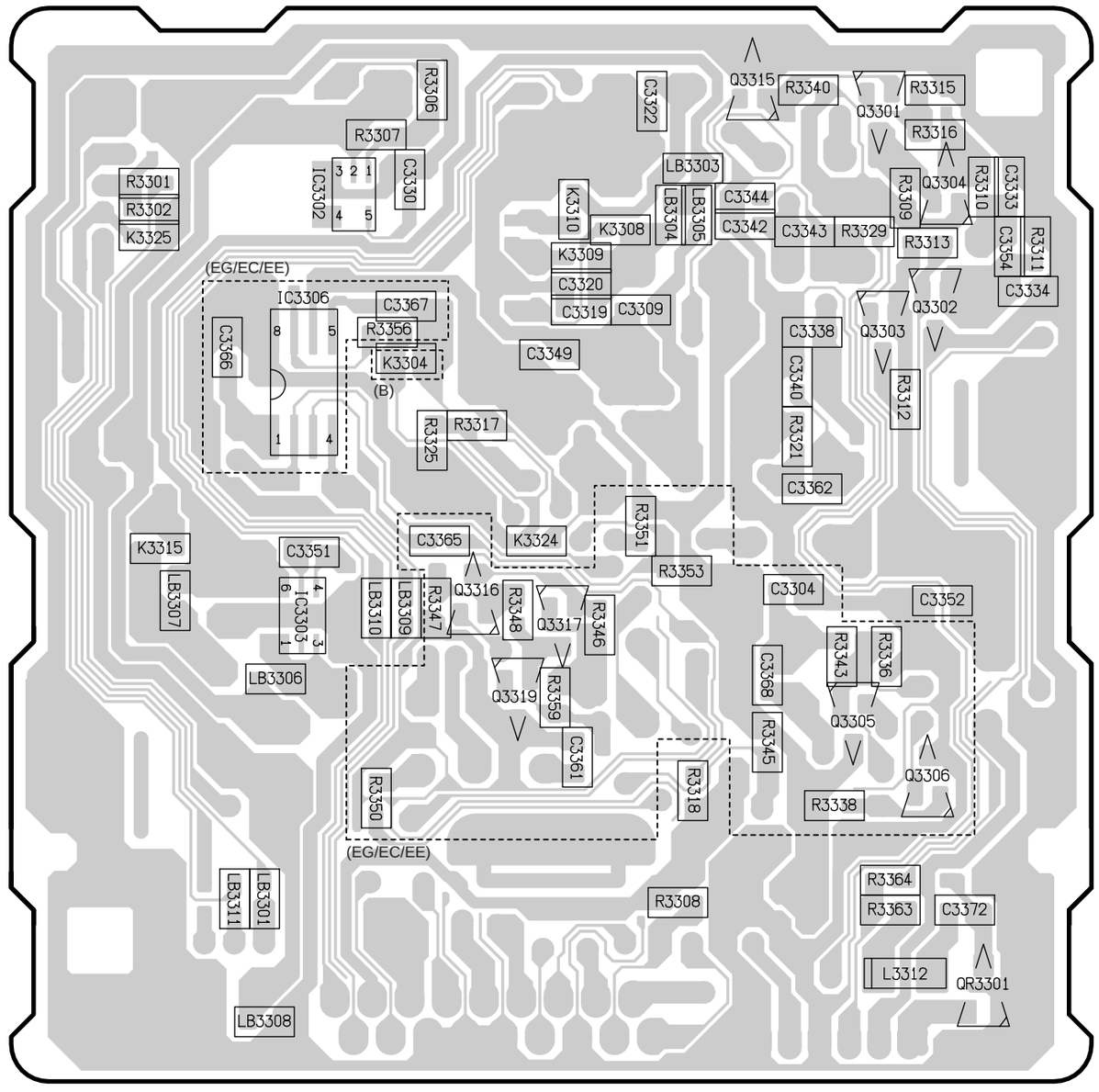
TBC/DNR PACK C.B.A.					
Transistor		Q3312	E-2	**Transistor & Resistor**	
Q3301	E-8	Q3313	E-1	QR3301	A-9
Q3302	D-9	Q3314	E-1	**Integrated Circuit**	
Q3303	D-8	Q3315	E-8	IC3301	D-4
Q3304	D-9	Q3316	C-7	IC3302	D-6
Q3305	B-8	Q3317	C-7	IC3303	C-6
Q3306	B-9	Q3318	C-3	IC3304	C-3
Q3307	D-2	Q3319	B-7	IC3305	C-2
Q3308	C-1	Q3320	B-1	IC3306	D-6
Q3309	B-2	Q3321	B-1	**Connector**	
Q3310	C-1			PS3301	A-2
Q3311	D-2			PS3302	A-3

ADDRESS INFORMATION

(VEP03G11A:NV-HS880EG/EC/EE)(VEP03G11B:NV-HS880B)



(COMPONENT SIDE)



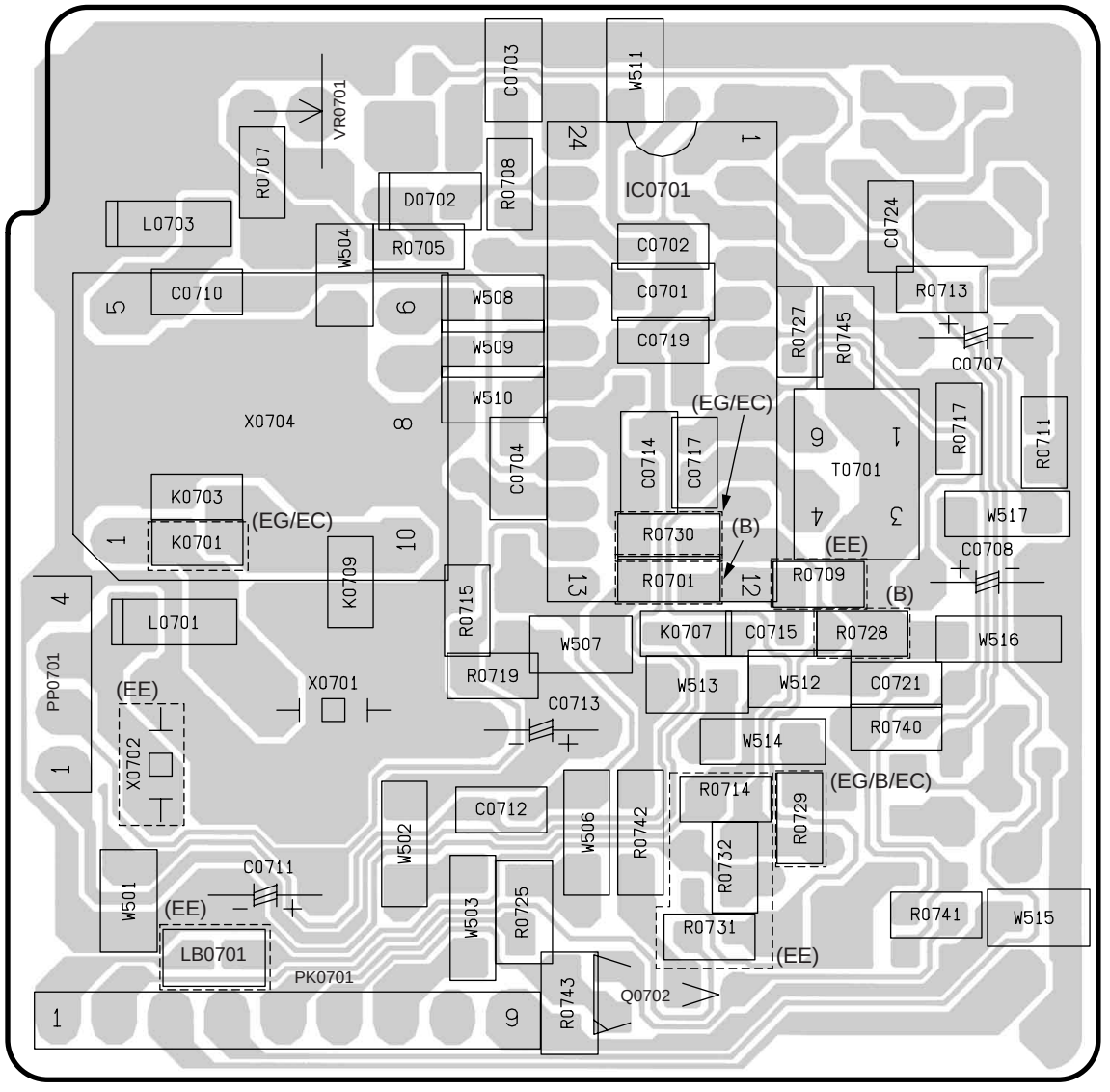
(FOIL SIDE)

NV-HS880EG/B/EC/EE
TBC/DNR PACK C.B.A.

TV DEMODULATOR PACK C.B.A.	
Transistor	
Q0702	A-3
Integrated Circuit	
IC0701	C-2
Adjustment	
T0701	B-3
VR0701	D-2
Connector	
PK0701	A-2
PP0701	B-1

ADDRESS INFORMATION

(VEP07A23S:NV-HS880EG/EC)
(VEP07A23T:NV-HS880B)
(VEP07A23U:NV-HS880EE)



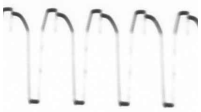
NV-HS880EG/B/EC/EE
TV DEMODURATOR PACK C.B.A.

T1101-3 STOP
3.8Vp-p (2msec.div.)

T1101-5 STOP
500Vp-p (5usec.div.)

T1101-6 STOP
540Vp-p (5usec.div.)

T1101-7 STOP
30Vp-p (5usec.div.)



T1101-10 STOP
180Vp-p (5usec.div.)

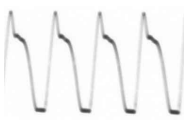
T1101-11 STOP
22Vp-p (5usec.div.)

T1101-13 STOP
50Vp-p (5usec.div.)

T1101-16 STOP
94Vp-p (5usec.div.)

T1101-17 STOP
23Vp-p (5usec.div.)

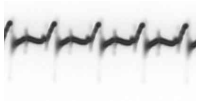
Q1101-S STOP
500Vp-p (5usec.div.)



Q1101-G STOP
170Vp-p (5usec.div.)

Q1101-D STOP
540Vp-p (5usec.div.)

Q1102-1 STOP
15Vp-p (5usec.div.)

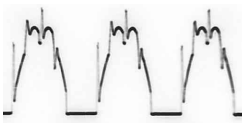


Q1102-2 STOP
1.0Vp-p (5usec.div.)

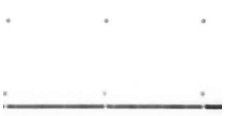
Q1102-3 STOP
500Vp-p (5usec.div.)

Q1201-1 STOP
0.5Vp-p (5usec.div.)

Q1201-2 STOP
0.5Vp-p (5usec.div.)



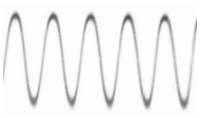
IC2501-1,18,20 PLAY
8.6Vp-p (2msec.div.)



IC6001-20 STILL
5.0Vp-p (5msec.div.)

IC6001-24 REC
5.0Vp-p (10msec.div.)

IC6001-34 REC
4.0Vp-p (5msec.div.)

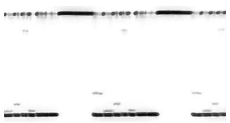


IC6001-35 REC
2.4Vp-p (20usec.div.)

IC6001-61 REC
2.0Vp-p (20usec.div.)

IC6001-93,94 FF/REW
5.0Vp-p (1msec.div.)

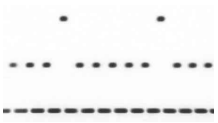
IC6001-97 REC
5.0Vp-p (5msec.div.)



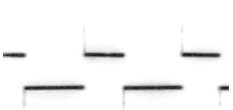
IC6001-98 REC
5.0Vp-p (5msec.div.)

IC6001-99 REC
5.0Vp-p (10msec.div.)

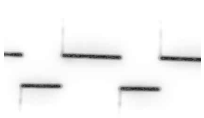
IC6001-100 REC
5.0Vp-p (10msec.div.)



IC6001-107 REC
5.0Vp-p (10msec.div.)

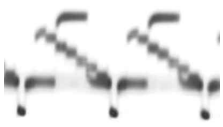


IC6001-111 REC
6.4Vp-p (10msec.div.)



IC6001-112 REC
6.4Vp-p (10msec.div.)

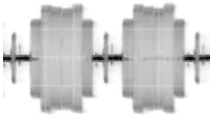
IC6001-114 PLAY
4.0Vp-p (10msec.div.)



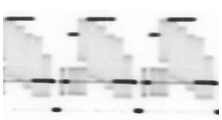
IC3001-11 REC
0.4Vp-p (20usec.div.)

IC3001-11 PLAY
0.4Vp-p (20usec.div.)

IC3001-13 REC/PLAY
0.4Vp-p (20usec.div.)

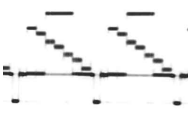


IC3001-20 REC
0.8Vp-p (20usec.div.)

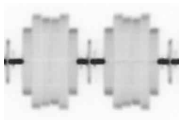


IC3001-22 REC
1.0Vp-p (20usec.div.)

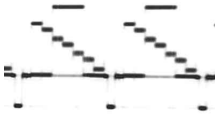
IC3001-45,46 REC/PLAY
5.0Vp-p (5msec.div.)



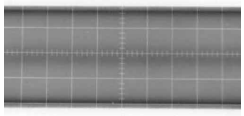
IC3001-57 REC/PLAY
2.0Vp-p (20usec.div.)



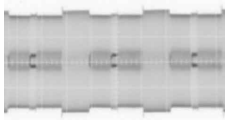
IC3001-59 REC/PLAY
1.5Vp-p (20usec.div.)



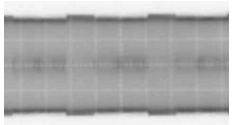
IC3001-68 REC
1.2Vp-p (20usec.div.)



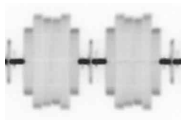
IC3001-84 PLAY
2.8Vp-p (20usec.div.)



IC3001-85 REC
3.0Vp-p (20usec.div.)



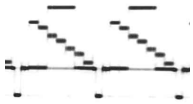
IC3001-86 PLAY
2.8Vp-p (20usec.div.)



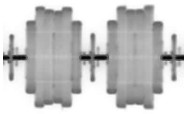
PP3001-2 PLAY
1.5Vp-p (20usec.div.)

PP3001-4 REC
5.0Vp-p (10msec.div.)

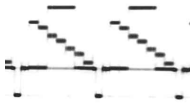
PP3001-6 REC
0.6Vp-p (20usec.div.)



PP3001-6 PLAY
0.6Vp-p (20usec.div.)



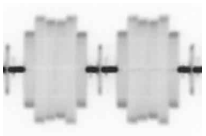
PP3001-10 REC
0.8Vp-p (20usec.div.)



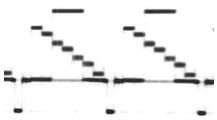
PP3001-12 REC
1.4Vp-p (20usec.div.)

PP3001-17 REC/PLAY
5.0Vp-p (20usec.div.)

PP3001-18 REC/PLAY
5.0Vp-p (20usec.div.)



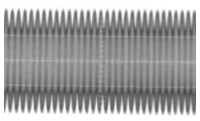
PP3002-2 PLAY
0.4Vp-p (20usec.div.)



PP3002-4 PLAY
1.8Vp-p (20usec.div.)

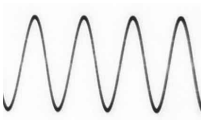
Q4002-C REC
8.4Vp-p (5usec.div.)

Q4006-C REC
8.4Vp-p (5usec.div.)



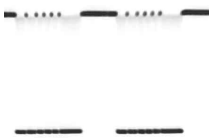
IC4501-21,22,24 REC
1.2Vp-p (10usec.div.)

IC4501-32 REC/PLAY
0.2Vp-p (0.5msec.div.)



IC4501-53,57 REC/PLAY
1.2Vp-p (0.5msec.div.)

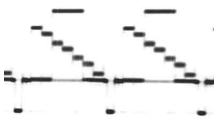
IC3301-48 REC/PLAY
5.0Vp-p (10msec.div.)



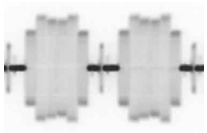
IC3301-75 REC/PLAY
5.0Vp-p (5msec.div.)

IC3301-76 REC/PLAY
5.0Vp-p (5msec.div.)

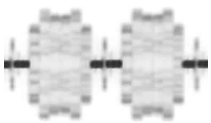
IC3301-81 REC
0.7Vp-p (20usec.div.)



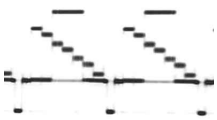
IC3301-83 PLAY
0.7Vp-p (20usec.div.)



IC3301-88 PLAY
0.4Vp-p (20usec.div.)



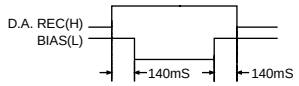
IC3301-93 REC/PLAY
0.4Vp-p (20usec.div.)



IC3301-95 PLAY
1.0Vp-p (20usec.div.)

No.	NAME	I/O	Description	P-OFF	P-SAVE	P-FAIL	Reset
1	CURRENT_LIMIT	O	Current limit terminal for Capstan driver.	Low	Low	Low	Low
2	F ADJUST	O	Analogue voltage output for Head frequency response adjustment.	Low	Low	Low	Low
3	SCAS_IN(L)	I	Detection Terminal for VHS tape or S-VHS tape.	In	In	In	In
4	ADUB(H)	O	Switching terminal of BIAS OSC noise reduction filter in ADUB (1). The VCR mode is ADUB/ADUB-PS(Including Assemble/Synchro./AV Insert): High output (2). Other than above: Hi-Z output	Hi-Z	Hi-Z	Hi-Z	Hi-Z
5	TRACKING_ENVE	I	Video envelope input terminal for auto tracking and CVC.	In	In	In	In
6	SLP(H)	O	Tape speed output terminal.(EE/VV) *When the NTSC10/PAL9H is set up as the Servo data.: High (H) output. *Other than above speed : Low (L) output.	Low	Low	Low	Low
7	LP(H)	O	Tape speed output terminal.(EE/VV) *When the NTSC4H/6H or PAL6H/9H is set up as the Servo data : High (H) Output. *Other than above speed : Low (L) output. *As for 2 head model, the output signal is fixed to low, no matter if it has LP mode or not.	Low	Low	Low	Low
8	CPB	I	PB(H) input terminal from AV2. *From 3.85v to 5.0v : High *From 1.82v to 2.84v :Middle *From 0v to 0.81v :Low	In	In	In	In
9	AFC S	I	S curve input terminal from the Tuner.	In	In	In	In
10	A-MUTE(H)	O	Audio mute signal exclusive for the RF converter.	High	High	Low	High
11	AV1_8IN	I	PB(H) input terminal from AV1. *From 3.85v to 5.0v : High *From 1.82v to 2.84v :Middle *From 0v to 0.81v :Low	In	In	In	In
12	N/S/T2/T3	I	Normal/Service/Test2/Test3 select *Over than 4.0v :NORMAL mode *From 2.5v to 4.0v :SERVICE mode *From 1.0v to 2.5v :TEST2 mode *From 0v to 1.0v :TEST3 mode	In	In	In	In
13	S-PHOTO	I	Tape end sensor input from supply side. *More than 2.6V: Black / Less than 2.4V : white)	In	In	In	In
14	T-PHOTO	I	Tape beginning sensor input from take up side *More than 2.6V: Black / Less than 2.4V : white)	In	In	In	In
15	ABS_NORM(H)	I	Input terminal for FM audio envelope level detection.	In	In	In	In
16	S-VHS/MES/NOR	I	Input terminal for Playback detection result. (S-VHS/MESECAM/NORMAL)	In	In	In	In
17	S-VHS(H)	O	Output terminal for S-VHS mode.	Low	Low	Low	Low
18	SECAM_ID_IN(L)	I	Input terminal for SECAM detection result.	In	In	In	In
19	D.FM.REC(H)	O	Control signal for timing of FM audio recording current.	Low	Low	Low	Low
20	ART.V/H/N	O	Output terminal of the Artificial V synchronization signal.	Low	Low	Low	Low
21	AV1_OUT_SW(L)	I	Input terminal of composite/component switching for AV1 output. *It is automatically switched composite/component when this result is sent to TV using P50.	In	In	In	In
22	AV3_S_IN(L)	I	Input terminal of AV3_S-VHS input condition. *AV3_S-VHS IN : "Low" (L).	In	In	In	In
23	ET_REC(H)	O	REC Mode output terminal of the S-VHS-ET.	Low	Low	Low	Low
24	VIDEO.H.SW	O	Output terminal for video HEAD switching signal.	Low	Low	Low	Low
25	A.H.SW	O	Output terminal for FM audio HEAD switching signal.	Low	Low	Low	Low
26	A.DEF(H)	O	Output terminal for decoder IC Reset.	Low	Low	Low	Low
27	TBC MODE0	O	TBC MODE0 output.	Low	Low	Low	Low
28	AVPB-H(L)	O	Output terminal of PB (H/M) for AV2. (If the unit has only one scart terminal, this is for AV1.) *To be outputted signal from 21pin (8) has been changed to H/M/L signal in accordance with the following terminal's settings.	High	High	Low	High
29	AVPB-M(H)	O		Low	Low	Low	Low
30	GND(D)	I	GND	---	---	---	---
31	20MHz.IN	I	Main oscillator input	---	STOP	STOP	---
32	20MHz.OUT	O	Main oscillator output	---	STOP	STOP	---
33	+5V(D)	I	VDD	---	---	---	---
34	32KHz IN	I	Sub oscillator input	---	---	---	---
35	32KHz OUT	O	Sub oscillator output	---	---	---	---
36	VCONT	I	Open	---	---	---	---

pin8 \ Setting	AVPBH-(L)	AVPBM-(H)
High	L	Hi-Z
Middle	H	Hi-Z
Low	H	L

No.	NAME	I/O	Description	P-OFF	P-SAVE	P-FAIL	Reset
37	V EE(L)	O	Output terminal of EE and VV switching.	Low	Low	Low	Low
38	ILLUMI LED ON(H)	O	Front Illumination LED ON/OFF control terminal. * The output is decided according to ON/OFF setting of OSD menu and power ON/OFF condition of VCR. * During OSD menu is OFF: Low output * During OSD menu is ON: VCR power is ON: High output	Low	Low	Low	Low
39	D.A.REC(H)	O	Timing control terminal for linear audio recording current.	Low	Low	Low	Low
40	BIAS(L)	O	Bias oscillation control terminal for linear audio.	High	Hi-Z	Hi-Z	High
41	FM.MUTE(H)	O	Output terminal for audio mute control.	High	High	Low	High
42	FULL ERASE(L)	O	Full Erase Head oscillation control terminal.	Low	Low	Low	Low
43	POWER_KEY	I	Input terminal for power on/off command through power button. (The power on/off is switched by detecting falling edge of H to L.)	In	In	In	In
44	POS.SW3	I	Input terminal for mechanism position.  	In	In	In	In
45	POS.SW2	I		In	In	In	In
46	POS.SW1	I		In	In	In	In
47	POWER OFF(H)	O	Control signal for power circuit. *High is existed when turning off the power supply for concerned circuit. *Low is existed while power is supplied to mechanism and/or concerned circuit, although it seems to be power off.	High	High	Low	High
48	FIP(L)	O	Control terminal for FIP on/off. *Low is existed when FIP OFF is selected on the Menu screen and the VCR turns off.	Not fix	High	Low	Low
49	P50 IN	I	Interrupt serial input terminal for project 50.	In	In	In	In
50	LC.OSC IN	I	Oscillation output terminal for OSD dot clock.	---	---	---	---
51	LC.OSC OUT	O	Oscillation input terminal for OSD dot clock.	---	---	---	---
52	RESET(L)	I	Reset input terminal of microprocessor.	In	In	In	In
53	4FC.LPF	I	4FSC input terminal.	---	---	---	---
54	OSD.FSC IN	I	FSC input tewrminal.	---	---	---	---
55	5V(OSD)	I	Power supply terminal for OSD circuit.	---	---	---	---
56	CVIN	I	Input terminal for composite video signal.	---	---	---	---
57	GND(OSD)	I	GND terminal for composite video signal.	---	---	---	---
58	LECHA	I	Input terminal for white level of composite video signal.	---	---	---	---
59	20M.START(H)	I	Control terminal for high/low-speed mode.	---	---	---	---
60	MD0	I	Mode switching terminal for Overwriting the Flash memory.	---	---	---	---
61	CVOUT	O	Output terminal for CG video.	---	---	---	---
62	HLF	O	LPF connecting terminal of the Slicer for OSD dot clock.	---	---	---	---
63	VHOLD	O	Capacitor connecting terminal of the Slicer for OSD dot clock.	---	---	---	---
64	CVIN(EDS)	I	Input terminal of the composite video signal for the Slicer.	In	In	In	In
65	SHORT_DN	I	Emergency detection terminal of oscillating circuit for recording. *The power is turned off Compulsory when this input becomes high while BIAS(L) existing (The self test indication displays : F08). *The power is turned off Compulsory when this input becomes Low while BIAS(H) existing (The self test indication displays : F07).	In	In	In	In
66	UNLOADING(H)	O	Control terminal for Loading motor.(Forward) *High is existed when the loading motor rotates reverse direction and/or breaking.	Low	Low	Low	Low
67	LOADING(H)	O	Control terminal for Loading motor.(Reverse) *High is existed when the loading motor rotates forward direction and/or breaking.	Low	Low	Low	Low
68	PAL-I/BG/DK(SYS4)	O	Output terminal for broad cast system to control the video circuit.	Not fix	Low	Low	Low
69	SECAM/PAL(SYS2)	O	Output terminal for the unit recognition result of broad cast system.	Low	Low	Low	Low
70	ADD-V	I	V-sync. Input terminal.	In	In	In	In
71	OSD PULSE	O	Terminal for abstracting the BOX from Video signal in superimpose mode.	Low	Low	Low	Low
72	SLEEP(L)	O	Output terminal of control signal for super power save mode, to be supplied to power circuit. *Low is existed when the super power save ON is selected and the unit is in the P-OFF	High	Low	Low	High
73	PROG ON	O	I/O control to switch IIC bus for LW-programmer. H:IIC bus is connected to AV2. L:IIC bus is not connected to AV2.	Low	Low	Low	Low
74	NAVI(H)	O	NAVI data writing control signal in Vertical Branking Period.	Low	Low	Low	Low
75	NAVI DATA	O	NAVI data writing control signal in Vertical Branking Period.	Low	Low	Low	Low
76	P FAIL	I	Interrupt input terminal for power fail detection.	In	In	In	In
77	IR	I	Interrupt input terminal receiving from IR-Remote Controller.	In	In	In	In
78	P50 OUT	O	Data output terminal for Project 50 (Q-Link, etc.)	Not fix	Low	Low	Low
79	CAP.ET	O	Output terminal for Capstan Torque command.	0V	0V	Low	0V
80	CYL.ET	O	Output terminal for Cylinder Torque command.	4.213V	4.213V	Low	4.213V
81	B/W(H)	O	B/W mode output terminal.	Low	Low	Low	Low
82	HALF_WAVE(H)	O	Control terminal for switching capstan motor speed full-wave (First) and Half-wave mode.	In	In	In	In
83	CAP.R/F	O	Capstan motor rotation direction control terminal.	Low	Low	Low	Low
84	125Hz	O	Output terminal of the reference 125Hz clock using for clock adjustment.	Not fix	Low	Low	Low
85	FLD/S-BUS CS	O	FLD/Slicer bus chip select terminal.	Not fix	Low	Low	Low
86	FLD/S-BUS/T2 CLK	O	FLD / Slicer bus / Test 2 clock terminal.	Not fix	Low	Low	Low
87	FLD/S-BUS/T2 IN	I	FLD/Slicer bus / TEST2 Data output terminal.	Not fix	In	In	In
88	FLD/S-BUS/T2 OUT	O	FLD/Slicer bus / TEST2 Data in terminal	Not fix	Low	Low	Low
89	5P CLK	O	FIP driver / TEST2 Serial Clock terminal (Serial clock signal for FIP driver and factory machine)	Not fix	Low	Low	Low
90	5P DATA IN	I	FIP driver / TEST2 Serial data input terminal (Serial data input signal for FIP driver and factory machine)	Not fix	In	In	In
91	5P DATA OUT	O	FIP driver / TEST2 Serial data output terminal (Serial data output signal for FIP driver and factory machine)	Not fix	Low	Low	Low

No.	NAME	I/O	Description	P-OFF	P-SAVE	P-FAIL	Reset
92	S TAB_ON(L)	I	Input terminal of condition of the erasure prevention tab on the cassette tape. *With tab : "Low" / Without tab : "High".	In	In	In	In
93	T.REEL.PULSE	I	Input terminal for the pulse from Take-up Reel Sensor.	In	In	In	In
94	S.REEL.PULSE	I	Input terminal for the pulse from Supply Reel Sensor.	In	In	In	In
95	DAVN	I	DAVN signal from Slicer	In	In	In	In
96	EEP_WR	O	Write enable for EEPROM H:READ only L:Write	High	High	Low	High
97	MAIN IIC CLK	O	IIC clock for AV1CHIP,FM audio,Tuner,Decoder and RFC	Not fix	Low	Low	Low
98	MAIN IIC DATA	I/O	IIC data for AV1CHIP,FM audio,Tuner,Decoder and RFC	Not fix	Low	Low	Low
99	OSD IIC CLK	O	IIC clock for EEPROM,I/O and slicer	Not fix	Low	Low	Low
100	OSD IIC DATA	O	IIC data for EEPROM,I/O and slicer	Not fix	Low	Low	Low
101	EE(L)	O	Output terminal of EE and VV switching.	Low	Low	Low	Low
102	EX.FF/REW(L)	O	Control terminal for the filter of the PB-CTL signal during FF/REW.	Low	Low	Low	Low
103	FG.AMP.OUT	O	Output from internal FG Amplifier	---	---	---	---
104	FG.AMP.IN	I	Input for internal FG Amplifier	---	---	---	---
105	GND(A)	I	GND.	---	---	---	---
106	to GND	I	GND.	---	---	---	---
107	PFG	I	FPG input terminal.	---	---	---	---
108	OREF	O	Output from internal reference voltage (2.5V)	---	---	---	---
109	IREF	I	Input for internal reference voltage	---	---	---	---
110	to GND	I	GND	---	---	---	---
111	CTL.HEAD(-)	I	Input signal from CTL HEAD(+)	---	---	---	---
112	CTL.HEAD(+)	I	Input signal from CTL HEAD(-)	---	---	---	---
113	CTL.AMP.REF	I	Input for internal CTL amplifier reference voltage	---	---	---	---
114	PB.CTL.OUT	O	Output from internal CLT amplifier	---	---	---	---
115	+5V(A)	I	VDD for Analogue signal process.	---	---	---	---
116	+5V(AD)	I	VDD for A/D converter.	---	---	---	---

INPUT CONDITION							VIDEO OUTPUT RESULT							AUDIO OUTPUT RESULT				
POWER	AV2 SELECT	TV/ VTR	EE/ VV	OSD ON(H)	INPUT CH	AV2 PB(H)	AV1 OUT	AV2 OUT	AV1 PB(H)	AV2 PB(H)	RGB SW	VCR IN	VCR OUT	AV1 Out	AV2 Out	RF (C)	AV1 Out Selector	AV2 Out Selector
OFF	---	---	---	---	---	L	AV2 In	AV1 In	L	L	OFF	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	M/H	L	ON	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
VPS STAND BY or Personal Planner Standby	EXT or TIMER1 or TIMER2	---	---	L	NO.TU	L	AV2 In	AV1 In	L	L	OFF	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	*[M/H]	L	ON	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					C+.TU	L	AV2 In	AV1 In	L	L	OFF	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	*[M/H]	L	ON	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					AV1	L	AV2 In	AV1 In	L	L	OFF	AV1	AV1	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	*[M/H]	L	ON	AV1	AV1	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					AV2	L	AV2 In	AV1 In	L	L	OFF	AV2	AV2	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	*[M/H]	L	ON	AV2	AV2	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					AV3	L	AV2 In	AV1 In	L	L	OFF	AV3	AV3	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	*[M/H]	L	ON	AV3	AV3	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					SAT.NO	L	AV2 In	AV1 In	L	L	OFF	SAT	SAT	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	*[M/H]	L	ON	SAT	SAT	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					SAT.C+	L	AV2 In	AV1 In	L	L	OFF	SAT	SAT	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	*[M/H]	L	ON	SAT	SAT	AV2 In	AV1 In	Mute	AV2 In	AV1 In
				H	NO.TU	L	VCR out	AV1 In	H	H	OFF	TUN	TUN	Mute	Mute	Mute	TUN	AV1 In
						M/H	VCR out	AV1 In	H	H	OFF	TUN	TUN	Mute	Mute	Mute	TUN	AV1 In
					C+.TU	L	VCR out	AV1 In	H	H	OFF	TUN	TUN	Mute	Mute	Mute	TUN	AV1 In
						M/H	VCR out	AV1 In	H	H	OFF	TUN	TUN	Mute	Mute	Mute	TUN	AV1 In
					AV1	L	VCR out	AV1 In	H	H	OFF	AV1	AV1	Mute	Mute	Mute	AV1 In	AV1 In
						M/H	VCR out	AV1 In	H	H	OFF	AV1	AV1	Mute	Mute	Mute	AV1 In	AV1 In
					AV2	L	VCR out	AV1 In	H	H	OFF	AV2	AV2	Mute	Mute	Mute	AV2 In	AV1 In
						M/H	VCR out	AV1 In	H	H	OFF	AV2	AV2	Mute	Mute	Mute	AV2 In	AV1 In
					AV3	L	VCR out	AV1 In	H	H	OFF	AV3	AV3	Mute	Mute	Mute	AV3 In	AV1 In
						M/H	VCR out	AV1 In	H	H	OFF	AV3	AV3	Mute	Mute	Mute	AV3 In	AV1 In
					SAT.NO	L	VCR out	AV1 In	H	H	OFF	SAT	SAT	Mute	Mute	Mute	SAT	AV1 In
						M/H	VCR out	AV1 In	H	H	OFF	SAT	SAT	Mute	Mute	Mute	SAT	AV1 In
					SAT.C+	L	VCR out	AV1 In	H	H	OFF	SAT	SAT	Mute	Mute	Mute	SAT	AV1 In
						M/H	VCR out	AV1 In	H	H	OFF	SAT	SAT	Mute	Mute	Mute	SAT	AV1 In
	DECODER	---	---	L	NO.TU	L	AV2 In	AV1 In	L	L	OFF	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	M/H	L	ON	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					C+.TU	L	AV2 In	AV1 In	L	L	OFF	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	M/H	L	ON	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					AV1	L	AV2 In	AV1 In	L	L	OFF	AV1	AV1	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	M/H	L	ON	AV2	AV2	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					AV2	L	AV2 In	AV1 In	L	L	OFF	AV2	AV2	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	M/H	L	ON	AV2	AV2	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					AV3	L	AV2 In	AV1 In	L	L	OFF	AV3	AV3	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	M/H	L	ON	AV3	AV3	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					SAT.NO	L	AV2 In	AV1 In	L	L	OFF	SAT	SAT	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	M/H	L	ON	SAT	SAT	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					SAT.C+	L	AV2 In	AV1 In	L	L	OFF	SAT	SAT	AV2 In	AV1 In	Mute	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	M/H	L	ON	SAT	SAT	AV2 In	AV1 In	Mute	AV2 In	AV1 In
				H	NO.TU	L	VCR out	AV1 In	H	L	OFF	TUN	TUN	Mute	Mute	Mute	TUN	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	TUN	TUN	Mute	Mute	Mute	TUN	AV1 In
					C+.TU	L	VCR out	AV1 In	H	L	OFF	TUN	TUN	Mute	Mute	Mute	TUN	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	TUN	TUN	Mute	Mute	Mute	TUN	AV1 In
					AV1	L	VCR out	AV1 In	H	L	OFF	AV1	AV1	Mute	Mute	Mute	AV1 In	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	AV2	AV2	Mute	Mute	Mute	AV2 In	AV1 In
					AV2	L	VCR out	AV1 In	H	L	OFF	AV2	AV2	Mute	Mute	Mute	AV2 In	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	AV2	AV2	Mute	Mute	Mute	AV2 In	AV1 In
					AV3	L	VCR out	AV1 In	H	L	OFF	AV3	AV3	Mute	Mute	Mute	AV3 In	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	AV3	AV3	Mute	Mute	Mute	AV3 In	AV1 In
					SAT.NO	L	VCR out	AV1 In	H	L	OFF	SAT	SAT	Mute	Mute	Mute	SAT	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	SAT	SAT	Mute	Mute	Mute	SAT	AV1 In
					SAT.C+	L	VCR out	AV1 In	H	L	OFF	SAT	SAT	Mute	Mute	Mute	SAT	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	SAT	SAT	Mute	Mute	Mute	SAT	AV1 In

INPUT CONDITION							VIDEO OUTPUT RESULT							AUDIO OUTPUT RESULT				
POWER	AV2 SELECT	TV/ VTR	EE/ VV	OSD ON(H)	INPUT CH	AV2 PB(H)	AV1 OUT	AV2 OUT	AV1 PB(H)	AV2 PB(H)	RGB SW	VCR IN	VCR OUT	AV1 Out	AV2 Out	RF (C)	AV1 Out Selector	AV2 Out Selector
P.ON	EXT	TV	EE	L	NO.TU	---	VCR out	VCR out	L	L	OFF	TUN	TUN	TUN	TUN	TUN	TUN	INSEL
					C+.TU	---	VCR out	VCR out	L	L	OFF	TUN	TUN	TUN	TUN	TUN	TUN	INSEL
	or				AV1	---	VCR out	VCR out	L	L	OFF	AV1	AV1	AV1 In	AV1 In	AV1 In	AV1 In	INSEL
					AV2	---	VCR out	VCR out	L	L	ON	AV2	AV2	AV2 In	AV2 In	AV2 In	AV2 In	INSEL
	TIMER1				AV3	---	VCR out	VCR out	L	L	OFF	AV3	AV3	AV3 In	AV3 In	AV3 In	AV3 In	INSEL
					SAT.NO	---	VCR out	VCR out	L	L	OFF	SAT	SAT	SAT	SAT	SAT	SAT	INSEL
	or				SAT.C+	---	VCR out	VCR out	L	L	OFF	SAT	SAT	SAT	SAT	SAT	SAT	INSEL
				H	NO.TU	---	VCR out	VCR out	H	H	OFF	TUN	TUN	TUN	TUN	TUN	TUN	INSEL
	TIMER2				C+.TU	---	VCR out	VCR out	H	H	OFF	TUN	TUN	TUN	TUN	TUN	TUN	INSEL
					AV1	---	VCR out	VCR out	H	H	OFF	AV1	AV1	AV1 In	AV1 In	AV1 In	AV1 In	INSEL
					AV2	---	VCR out	VCR out	H	H	OFF	AV2	AV2	AV2 In	AV2 In	AV2 In	AV2 In	INSEL
					AV3	---	VCR out	VCR out	H	H	OFF	AV3	AV3	AV3 In	AV3 In	AV3 In	AV3 In	INSEL
					SAT.NO	---	VCR out	VCR out	H	H	OFF	SAT	SAT	SAT	SAT	SAT	SAT	INSEL
					SAT.C+	---	VCR out	VCR out	H	H	OFF	SAT	SAT	SAT	SAT	SAT	SAT	INSEL
		VTR	EE	L	NO.TU	---	VCR out	VCR out	H	H	OFF	TUN	TUN	TUN	TUN	TUN	TUN	INSEL
					C+.TU	---	VCR out	VCR out	H	H	OFF	TUN	TUN	TUN	TUN	TUN	TUN	INSEL
					AV1	---	VCR out	VCR out	H	H	OFF	AV1	AV1	AV1 In	AV1 In	AV1 In	AV1 In	INSEL
					AV2	L	VCR out	VCR out	H	H	ON	AV2	AV2	AV2 In	AV2 In	AV2 In	AV2 In	INSEL
						M/H	VCR out	VCR out	M/H	M/H	ON	AV2	AV2	AV2 In	AV2 In	AV2 In	AV2 In	INSEL
					AV3	---	VCR out	VCR out	H	H	OFF	AV3	AV3	AV3 In	AV3 In	AV3 In	AV3 In	INSEL
					SAT.NO	---	VCR out	VCR out	H	H	OFF	SAT	SAT	SAT	SAT	SAT	SAT	INSEL
					SAT.C+	---	VCR out	VCR out	H	H	OFF	SAT	SAT	SAT	SAT	SAT	SAT	INSEL
				H	NO.TU	---	VCR out	VCR out	H	H	OFF	TUN	TUN	TUN	TUN	TUN	TUN	INSEL
					C+.TU	---	VCR out	VCR out	H	H	OFF	TUN	TUN	TUN	TUN	TUN	TUN	INSEL
P.ON	EXT	VTR	EE	H	AV1	---	VCR out	VCR out	H	H	OFF	AV1	AV1	AV1 In	AV1 In	AV1 In	AV1 In	INSEL
					AV2	---	VCR out	VCR out	H	H	OFF	AV2	AV2	AV2 In	AV2 In	AV2 In	AV2 In	INSEL
					AV3	---	VCR out	VCR out	H	H	OFF	AV3	AV3	AV3 In	AV3 In	AV3 In	AV3 In	INSEL
					SAT.NO	---	VCR out	VCR out	H	H	OFF	SAT	SAT	SAT	SAT	SAT	SAT	INSEL
					SAT.C+	---	VCR out	VCR out	H	H	OFF	SAT	SAT	SAT	SAT	SAT	SAT	INSEL
			VV	---	NO.TU	---	VCR out	VCR out	M/H	M/H	OFF	TUN	PB	PB	PB	PB	TUN	INSEL
					C+.TU	---	VCR out	VCR out	M/H	M/H	OFF	TUN	PB	PB	PB	PB	TUN	INSEL
					AV1	---	VCR out	VCR out	M/H	M/H	OFF	AV1	PB	PB	PB	PB	AV1 In	INSEL
					AV2	---	VCR out	VCR out	M/H	M/H	OFF	AV2	PB	PB	PB	PB	AV2 In	INSEL
					AV3	---	VCR out	VCR out	M/H	M/H	OFF	AV3	PB	PB	PB	PB	AV3 In	INSEL
					SAT.NO	---	VCR out	VCR out	M/H	M/H	OFF	SAT	PB	PB	PB	PB	SAT	INSEL
					SAT.C+	---	VCR out	VCR out	M/H	M/H	OFF	SAT	PB	PB	PB	PB	SAT	INSEL
	DECODER	TV	EE	L	NO.TU	L	VCR out	AV1 In	L	L	OFF	TUN	TUN	TUN	AV1 In	TUN	TUN	AV1 In
						M/H	AV2 In	AV1 In	M/H	L	ON	TUN	TUN	AV2 In	AV1 In	TUN	AV2 In	AV1 In
					C+.TU	L	VCR out	TUN IN	L	L	OFF	TUN	TUN	TUN	TUN	TUN	TUN	TUN
						M/H	VCR out	TUN IN	L	L	OFF	AV2	AV2	AV2 In	TUN	AV2 In	AV2 In	TUN
					AV1	L	VCR out	AV1 In	L	L	OFF	AV1	AV1	AV1 In	AV1 In	AV1 In	AV1 In	AV1 In
						M/H	AV2 In	AV1 In	M/H	L	ON	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
					AV2	L	VCR out	AV1 In	L	L	ON	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
						M/H	AV2 In	AV1 In	M/H	L	ON	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
					AV3	L	VCR out	AV1 In	L	L	OFF	AV3	AV3	AV3 In	AV1 In	AV3 In	AV3 In	AV1 In
						M/H	AV2 In	AV1 In	M/H	L	ON	AV3	AV3	AV2 In	AV1 In	AV3 In	AV2 In	AV1 In
					SAT.NO	L	VCR out	AV1 In	L	L	OFF	SAT	SAT	SAT	AV1 In	SAT	SAT	AV1 In
						M/H	AV2 In	AV1 In	M/H	L	ON	SAT	SAT	AV2 In	AV1 In	SAT	AV2 In	AV1 In
					SAT.C+	L	VCR out	SAT IN	L	L	OFF	SAT	SAT	SAT	SAT	SAT	SAT	TUN
						M/H	VCR out	SAT IN	L	L	OFF	AV2	AV2	AV2 In	SAT	AV2 In	AV2 In	TUN
				H	NO.TU	L	VCR out	AV1 In	H	L	OFF	TUN	TUN	TUN	AV1 In	TUN	TUN	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	TUN	TUN	TUN	AV1 In	TUN	TUN	AV1 In
					C+.TU	L	VCR out	TUN IN	H	L	OFF	TUN	TUN	TUN	TUN	TUN	TUN	TUN
						M/H	VCR out	TUN IN	H	L	OFF	AV2	AV2	AV2 In	TUN	AV2 In	AV2 In	TUN
					AV1	L	VCR out	AV1 In	H	L	OFF	AV1	AV1	AV1 In	AV1 In	AV1 In	AV1 In	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
					AV2	L	VCR out	AV1 In	H	L	OFF	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
					AV3	L	VCR out	AV1 In	H	L	OFF	AV3	AV3	AV3 In	AV1 In	AV3 In	AV3 In	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	AV3	AV3	AV3 In	AV1 In	AV3 In	AV3 In	AV1 In
					SAT.NO	L	VCR out	AV1 In	H	L	OFF	SAT	SAT	SAT	AV1 In	SAT	SAT	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	SAT	SAT	SAT	AV1 In	SAT	SAT	AV1 In
					SAT.C+	L	VCR out	SAT IN	H	L	OFF	SAT	SAT	SAT	SAT	SAT	SAT	SAT
						M/H	VCR out	SAT IN	H	L	ON	AV2	AV2	AV2 In	SAT	AV2 In	AV2 In	SAT

INPUT CONDITION							VIDEO OUTPUT RESULT							AUDIO OUTPUT RESULT				
POWER	AV2 SELECT	TV/ VTR	EE/ VV	OSD ON(H)	INPUT CH	AV2 PB(H)	AV1 OUT	AV2 OUT	AV1 PB(H)	AV2 PB(H)	RGB SW	VCR IN	VCR OUT	AV1 Out	AV2 Out	RF (C)	AV1 Out Selector	AV2 Out Selector
P.ON	DECODER	VTR	EE	L	NO.TU	L	VCR out	AV1 In	H	L	OFF	TUN	TUN	TUN	AV1 In	TUN	TUN	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	TUN	TUN	TUN	AV1 In	TUN	TUN	AV1 In
					C+.TU	L	VCR out	TUN IN	H	L	OFF	TUN	TUN	TUN	TUN	TUN	TUN	TUN
						M/H	VCR out	TUN IN	M/H	L	ON	AV2	AV2	AV2 In	TUN	AV2 In	AV2 In	TUN
					AV1	L	VCR out	AV1 In	H	L	OFF	AV1	AV1	AV1 In	AV1 In	AV1 In	AV1 In	AV1 In
						M/H	VCR out	AV1 In	M/H	L	ON	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
					AV2	L	VCR out	AV1 In	H	L	ON	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
						M/H	VCR out	AV1 In	M/H	L	ON	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
					AV3	L	VCR out	AV1 In	H	L	OFF	AV3	AV3	AV3 In	AV1 In	AV3 In	AV3 In	AV1 In
						M/H	VCR out	AV1 In	M/H	L	OFF	AV3	AV3	AV3 In	AV1 In	AV3 In	AV3 In	AV1 In
					SAT.NO	L	VCR out	AV1 In	H	L	OFF	SAT	SAT	SAT	AV1 In	SAT	SAT	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	SAT	SAT	SAT	AV1 In	SAT	SAT	AV1 In
					SAT.C+	L	VCR out	SAT IN	H	L	OFF	SAT	SAT	SAT	SAT	SAT	SAT	SAT
						M/H	VCR out	SAT IN	M/H	L	ON	AV2	AV2	AV2 In	SAT	AV2 In	AV2 In	SAT
				H	NO.TU	L	VCR out	AV1 In	H	L	OFF	TUN	TUN	TUN	AV1 In	TUN	TUN	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	TUN	TUN	TUN	AV1 In	TUN	TUN	AV1 In
					C+.TU	L	VCR out	TUN IN	H	L	OFF	TUN	TUN	TUN	TUN	TUN	TUN	TUN
						M/H	VCR out	TUN IN	H	L	OFF	AV2	AV2	AV2 In	TUN	AV2 In	AV2 In	TUN
					AV1	L	VCR out	AV1 In	H	L	OFF	AV1	AV1	AV1 In	AV1 In	AV1 In	AV1 In	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
					AV2	L	VCR out	AV1 In	H	L	OFF	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
					AV3	L	VCR out	AV1 In	H	L	OFF	AV3	AV3	AV3 In	AV1 In	AV3 In	AV3 In	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	AV3	AV3	AV3 In	AV1 In	AV3 In	AV3 In	AV1 In
					SAT.NO	L	VCR out	AV1 In	H	L	OFF	SAT	SAT	SAT	AV1 In	SAT	SAT	AV1 In
						M/H	VCR out	AV1 In	H	L	OFF	SAT	SAT	SAT	AV1 In	SAT	SAT	AV1 In
					SAT.C+	L	VCR out	SAT IN	H	L	OFF	SAT	SAT	SAT	SAT	SAT	SAT	SAT
						M/H	VCR out	SAT IN	H	L	OFF	AV2	AV2	AV2 In	SAT	AV2 In	AV2 In	SAT
			VV	---	NO.TU	L	VCR out	AV1 In	M/H	L	OFF	TUN	PB	PB	AV1 In	PB	TUN	AV1 In
						M/H	VCR out	AV1 In	M/H	L	OFF	TUN	PB	PB	AV1 In	PB	TUN	AV1 In
					C+.TU	L	VCR out	TUN IN	M/H	L	OFF	TUN	PB	PB	TUN	PB	TUN	TUN
						M/H	VCR out	TUN IN	M/H	L	OFF	AV2	PB	PB	TUN	PB	AV2 In	TUN
					AV1	L	VCR out	AV1 In	M/H	L	OFF	AV1	PB	PB	AV1 In	PB	AV1 In	AV1 In
						M/H	VCR out	AV1 In	M/H	L	OFF	AV2	PB	PB	AV1 In	PB	AV2 In	AV1 In
					AV2	L	VCR out	AV1 In	M/H	L	OFF	AV2	PB	PB	AV1 In	PB	AV2 In	AV1 In
						M/H	VCR out	AV1 In	M/H	L	OFF	AV2	PB	PB	AV1 In	PB	AV2 In	AV1 In
					AV3	L	VCR out	AV1 In	M/H	L	OFF	AV3	PB	PB	AV1 In	PB	AV3 In	AV1 In
						M/H	VCR out	AV1 In	M/H	L	OFF	AV3	PB	PB	AV1 In	PB	AV3 In	AV1 In
					SAT.NO	L	VCR out	AV1 In	M/H	L	OFF	SAT	PB	PB	AV1 In	PB	SAT	AV1 In
						M/H	VCR out	AV1 In	M/H	L	OFF	SAT	PB	PB	AV1 In	PB	SAT	AV1 In
					SAT.C+	L	VCR out	SAT IN	M/H	L	OFF	SAT	PB	PB	SAT	PB	SAT	SAT
						M/H	VCR out	SAT IN	M/H	L	OFF	AV2	PB	PB	SAT	PB	AV2 In	SAT

NOTE: NO.TU: Tuner position, DECODER OFF (e.g. ARD) RGB SW : OFF = HIGH, ON=LOW

C+TU: Tuner position, DECODER ON (e.g. PREMI) EE : Non-Playback signal VV:Playback signal

***[M/H] :In case of Personal Planner standby(not External Link), AV1 PB must not output 'M' or 'H'**

INPUT CONDITION						VIDEO OUTPUT RESULT							AUDIO OUTPUT RESULT				
POWER	AV2 SELECT	EE/ VV	OSD ON(H)	INPUT CH	AV2 PB(H)	AV1 OUT	AV2 OUT	AV1 PB(H)	AV2 PB(H)	RGB SW	VCR IN	VCR OUT	AV1 Out	AV2 Out	RF (C)	AV1 Out Selector	AV2 Out Selector
OFF	---	---	---	---	L	AV2 In	AV1 In	L	L	OFF	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					M/H	AV2 In	AV1 In	M/H	L	ON	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
PDC STAND BY or TIMER1 or Personal Planner Standby	EXT or TIMER2	---	L	TUN	L	AV2 In	AV1 In	L	L	OFF	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					M/H	AV2 In	AV1 In	*[M/H]	L	ON	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
				AV1	L	AV2 In	AV1 In	L	L	OFF	AV1	AV1	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					M/H	AV2 In	AV1 In	*[M/H]	L	ON	AV1	AV1	AV2 In	AV1 In	Mute	AV2 In	AV1 In
				AV2	L	AV2 In	AV1 In	L	L	OFF	AV2	AV2	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					M/H	AV2 In	AV1 In	*[M/H]	L	ON	AV2	AV2	AV2 In	AV1 In	Mute	AV2 In	AV1 In
				AV3	L	AV2 In	AV1 In	L	L	OFF	AV3	AV3	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					M/H	AV2 In	AV1 In	*[M/H]	L	ON	AV3	AV3	AV2 In	AV1 In	Mute	AV2 In	AV1 In
				SAT.TU	L	AV2 In	AV1 In	L	L	OFF	SAT	SAT	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					M/H	AV2 In	AV1 In	*[M/H]	L	ON	SAT	SAT	AV2 In	AV1 In	Mute	AV2 In	AV1 In
			H	TUN	L	VCR out	AV1 In	H	H	OFF	TUN	TUN	Mute	Mute	Mute	TUN	AV1 In
					M/H	VCR out	AV1 In	H	H	OFF	TUN	TUN	Mute	Mute	Mute	TUN	AV1 In
				AV1	L	VCR out	AV1 In	H	H	OFF	AV1	AV1	Mute	Mute	Mute	AV1 In	AV1 In
					M/H	VCR out	AV1 In	H	H	OFF	AV1	AV1	Mute	Mute	Mute	AV1 In	AV1 In
				AV2	L	VCR out	AV1 In	H	H	OFF	AV2	AV2	Mute	Mute	Mute	AV2 In	AV1 In
					M/H	VCR out	AV1 In	H	H	OFF	AV2	AV2	Mute	Mute	Mute	AV2 In	AV1 In
				AV3	L	VCR out	AV1 In	H	H	OFF	AV3	AV3	Mute	Mute	Mute	AV3 In	AV1 In
					M/H	VCR out	AV1 In	H	H	OFF	AV3	AV3	Mute	Mute	Mute	AV3 In	AV1 In
				SAT.TU	L	VCR out	AV1 In	H	H	OFF	SAT	SAT	Mute	Mute	Mute	SAT	AV1 In
					M/H	VCR out	AV1 In	H	H	OFF	SAT	SAT	Mute	Mute	Mute	SAT	AV1 In
	DECODER	---	L	TUN	L	AV2 In	AV1 In	L	L	OFF	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					M/H	AV2 In	AV1 In	M/H	L	ON	TUN	TUN	AV2 In	AV1 In	Mute	AV2 In	AV1 In
				AV1	L	AV2 In	AV1 In	L	L	OFF	AV1	AV1	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					M/H	AV2 In	AV1 In	M/H	L	ON	AV2	AV2	AV2 In	AV1 In	Mute	AV2 In	AV1 In
				AV2	L	AV2 In	AV1 In	L	L	OFF	AV2	AV2	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					M/H	AV2 In	AV1 In	M/H	L	ON	AV2	AV2	AV2 In	AV1 In	Mute	AV2 In	AV1 In
				AV3	L	AV2 In	AV1 In	L	L	OFF	AV3	AV3	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					M/H	AV2 In	AV1 In	M/H	L	ON	AV3	AV3	AV2 In	AV1 In	Mute	AV2 In	AV1 In
				SAT.TU	L	AV2 In	AV1 In	L	L	OFF	SAT	SAT	AV2 In	AV1 In	Mute	AV2 In	AV1 In
					M/H	AV2 In	AV1 In	M/H	L	ON	SAT	SAT	AV2 In	AV1 In	Mute	AV2 In	AV1 In
			H	TUN	L	VCR out	AV1 In	H	L	OFF	TUN	TUN	Mute	Mute	Mute	TUN	AV1 In
					M/H	VCR out	AV1 In	H	L	OFF	TUN	TUN	Mute	Mute	Mute	TUN	AV1 In
				AV1	L	VCR out	AV1 In	H	L	OFF	AV1	AV1	Mute	Mute	Mute	AV1 In	AV1 In
					M/H	VCR out	AV1 In	H	L	OFF	AV2	AV2	Mute	Mute	Mute	AV2 In	AV1 In
				AV2	L	VCR out	AV1 In	H	L	OFF	AV2	AV2	Mute	Mute	Mute	AV2 In	AV1 In
					M/H	VCR out	AV1 In	H	L	OFF	AV2	AV2	Mute	Mute	Mute	AV2 In	AV1 In
				AV3	L	VCR out	AV1 In	H	L	OFF	AV3	AV3	Mute	Mute	Mute	AV3 In	AV1 In
					M/H	VCR out	AV1 In	H	L	OFF	AV3	AV3	Mute	Mute	Mute	AV3 In	AV1 In
				SAT.TU	L	VCR out	AV1 In	H	L	OFF	SAT	SAT	Mute	Mute	Mute	SAT	AV1 In
					M/H	VCR out	AV1 In	H	L	OFF	SAT	SAT	Mute	Mute	Mute	SAT	AV1 In

INPUT CONDITION						VIDEO OUTPUT RESULT							AUDIO OUTPUT RESULT				
POWER	AV2 SELECT	EE/ VV	OSD ON(H)	INPUT CH	AV2 PB(H)	AV1 OUT	AV2 OUT	AV1 PB(H)	AV2 PB(H)	RGB SW	VCR IN	VCR OUT	AV1 Out	AV2 Out	RF (C)	AV1 Out Selector	AV2 Out Selector
P.ON	EXT	EE	L	TUN	---	VCR out	VCR out	L	L	OFF	TUN	TUN	TUN	TUN	TUN	TUN	INSEL
				AV1	---	VCR out	VCR out	L	L	OFF	AV1	AV1	AV1 In	AV1 In	AV1 In	AV1 In	INSEL
	or			AV2	---	VCR out	VCR out	L	L	ON	AV2	AV2	AV2 In	AV2 In	AV2 In	AV2 In	INSEL
				AV3	---	VCR out	VCR out	L	L	OFF	AV3	AV3	AV3 In	AV3 In	AV3 In	AV3 In	INSEL
	TIMER1			SAT.TU	---	VCR out	VCR out	L	L	OFF	SAT	SAT	SAT	SAT	SAT	SAT	INSEL
			H	TUN	---	VCR out	VCR out	H	H	OFF	TUN	TUN	TUN	TUN	TUN	TUN	INSEL
	or			AV1	---	VCR out	VCR out	H	H	OFF	AV1	AV1	AV1 In	AV1 In	AV1 In	AV1 In	INSEL
				AV2	---	VCR out	VCR out	H	H	OFF	AV2	AV2	AV2 In	AV2 In	AV2 In	AV2 In	INSEL
	TIMER2			AV3	---	VCR out	VCR out	H	H	OFF	AV3	AV3	AV3 In	AV3 In	AV3 In	AV3 In	INSEL
				SAT.TU	---	VCR out	VCR out	H	H	OFF	SAT	SAT	SAT	SAT	SAT	SAT	INSEL
		VV	---	TUN	---	VCR out	VCR out	M/H	M/H	OFF	TUN	PB	PB	PB	PB	TUN	INSEL
				AV1	---	VCR out	VCR out	M/H	M/H	OFF	AV1	PB	PB	PB	PB	AV1 In	INSEL
				AV2	---	VCR out	VCR out	M/H	M/H	OFF	AV2	PB	PB	PB	PB	AV2 In	INSEL
				AV3	---	VCR out	VCR out	M/H	M/H	OFF	AV3	PB	PB	PB	PB	AV3 In	INSEL
				SAT.TU	---	VCR out	VCR out	M/H	M/H	OFF	SAT	PB	PB	PB	PB	SAT	INSEL
	DECODER	EE	L	TUN	L	VCR out	TUN IN	L	L	OFF	TUN	TUN	TUN	TUN	TUN	TUN	TUN
					M/H	VCR out	TUN IN	L	L	ON	AV2	AV2	AV2 In	TUN	AV2 In	AV2 In	TUN
				AV1	L	VCR out	AV1 In	L	L	OFF	AV1	AV1	AV1 In	AV1 In	AV1 In	AV1 In	AV1 In
					M/H	VCR out	AV1 In	L	L	ON	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
				AV2	L	VCR out	AV1 In	L	L	ON	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
					M/H	VCR out	AV1 In	L	L	ON	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
				AV3	L	VCR out	AV1 In	L	L	OFF	AV3	AV3	AV3 In	AV1 In	AV3 In	AV3 In	AV1 In
					M/H	VCR out	AV1 In	L	L	OFF	AV3	AV3	AV3 In	AV1 In	AV3 In	AV3 In	AV1 In
				SAT.TU	L	VCR out	SAT IN	L	L	OFF	SAT	SAT	SAT	SAT	SAT	SAT	SAT
					M/H	VCR out	SAT IN	L	L	ON	AV2	AV2	AV2 In	SAT	AV2 In	AV2 In	SAT
			H	TUN	L	VCR out	TUN IN	H	L	OFF	TUN	TUN	TUN	TUN	TUN	TUN	TUN
					M/H	VCR out	TUN IN	H	L	OFF	AV2	AV2	AV2 In	TUN	AV2 In	AV2 In	TUN
				AV1	L	VCR out	AV1 In	H	L	OFF	AV1	AV1	AV1 In	AV1 In	AV1 In	AV1 In	AV1 In
					M/H	VCR out	AV1 In	H	L	OFF	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
				AV2	L	VCR out	AV1 In	H	L	OFF	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
					M/H	VCR out	AV1 In	H	L	OFF	AV2	AV2	AV2 In	AV1 In	AV2 In	AV2 In	AV1 In
				AV3	L	VCR out	AV1 In	H	L	OFF	AV3	AV3	AV3 In	AV1 In	AV3 In	AV3 In	AV1 In
					M/H	VCR out	AV1 In	H	L	OFF	AV3	AV3	AV3 In	AV1 In	AV3 In	AV3 In	AV1 In
				SAT.TU	L	VCR out	SAT IN	H	L	OFF	SAT	SAT	SAT	SAT	SAT	SAT	SAT
					M/H	VCR out	SAT IN	H	L	ON	AV2	AV2	AV2 In	SAT	AV2 In	AV2 In	SAT
		VV	---	TUN	L	VCR out	TUN IN	M/H	L	OFF	TUN	PB	PB	TUN	PB	TUN	TUN
					M/H	VCR out	TUN IN	M/H	L	OFF	AV2	PB	PB	TUN	PB	AV2 In	TUN
				AV1	L	VCR out	AV1 In	M/H	L	OFF	AV1	PB	PB	AV1 In	PB	AV1 In	AV1 In
					M/H	VCR out	AV1 In	M/H	L	OFF	AV2	PB	PB	AV1 In	PB	AV2 In	AV1 In
				AV2	L	VCR out	AV1 In	M/H	L	OFF	AV2	PB	PB	AV1 In	PB	AV2 In	AV1 In
					M/H	VCR out	AV1 In	M/H	L	OFF	AV2	PB	PB	AV1 In	PB	AV2 In	AV1 In
				AV3	L	VCR out	AV1 In	M/H	L	OFF	AV3	PB	PB	AV1 In	PB	AV3 In	AV1 In
					M/H	VCR out	AV1 In	M/H	L	OFF	AV3	PB	PB	AV1 In	PB	AV3 In	AV1 In
				SAT.TU	L	VCR out	SAT IN	M/H	L	OFF	SAT	PB	PB	SAT	PB	SAT	SAT
					M/H	VCR out	SAT IN	M/H	L	OFF	AV2	PB	PB	SAT	PB	AV2 In	SAT

NOTE: RGB SW : OFF = HIGH, ON=LOW

EE : Non-Playback signal VV:Playback signal

***[M/H] :In case of Personal Planner standby(not External Link), AV1 PB must not output 'M' or 'H'**

SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

Ref. No.	IC1501								IC1502											
MODE	1	2	3	4					1	2	3	4								
STOP	1.1	2.3	0.0	0.0					0.0	1.1	0.1	0.0								
PLAY	1.1	2.3	5.0	0.0					0.0	1.1	5.0	0.0								
REC	1.2	2.3	5.0	0.0					0.0	1.1	5.0	0.0								
F.F	1.2	2.3	2.4	0.0					0.0	1.1	2.4	0.0								
REW	1.2	2.3	2.4	0.0					0.0	1.1	2.4	0.0								

Ref. No.	IC2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0.7	0.0	5.1	0.0	5.1	1.2	1.1	2.7	0.0	0.0	0.0	1.8	0.2	1.6	4.3	0.7	15.5	0.7	0.0	0.7
PLAY	3.7	0.0	5.1	1.0	5.1	1.2	1.1	2.5	0.0	0.0	1.0	2.6	0.3	1.8	1.8	3.7	15.5	3.7	0.0	3.7
REC	3.8	0.0	5.1	1.0	5.1	1.2	1.2	2.5	0.0	0.0	1.0	2.6	0.3	1.8	1.8	3.7	15.5	3.8	0.0	3.8
F.F	3.6	0.0	5.1	1.0	5.1	1.2	1.1	2.5	0.0	0.0	1.1	2.6	0.4	1.8	1.8	3.7	15.5	3.7	0.0	3.6
REW	3.8	0.0	5.1	1.0	5.1	1.2	1.1	2.5	0.0	0.0	1.0	2.6	0.3	1.8	1.8	3.8	15.5	3.7	0.0	3.8

Ref. No.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	5.0	4.9	4.9	4.2	0.1	4.7	0.0	0.0	0.0
PLAY	4.8	1.4	0.0	0.0	1.7	0.0	0.0	0.0	2.5	0.0	4.3	5.1	4.9	4.8	0.1	4.1	4.8	0.0	0.0	0.0
REC	4.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	5.1	4.9	4.7	4.2	0.1	4.8	0.0	4.8	0.0
F.F	5.1	1.4	0.0	0.0	0.1	0.0	0.0	0.0	2.4	0.0	0.0	5.1	4.9	4.9	4.2	0.1	4.8	0.0	0.0	0.0
REW	5.1	1.4	0.0	0.0	0.1	0.0	0.0	0.0	2.4	0.0	0.0	5.1	4.8	5.0	4.3	0.1	4.8	0.0	0.0	0.0

Ref. No.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	5.0	4.2	0.0	0.0	0.0	4.5	3.5	4.8	0.0	0.0	-	-	4.9	1.0	1.5	3.0	0.0	4.7	0.0	4.8
PLAY	5.0	4.2	0.0	2.4	2.4	4.5	3.5	0.0	0.0	0.0	-	-	4.9	0.8	1.5	3.0	4.8	4.7	0.0	4.9
REC	5.0	4.2	0.0	2.4	0.0	4.5	3.5	4.8	0.0	0.0	-	-	4.9	0.8	1.5	3.0	0.0	4.7	4.8	0.0
F.F	5.0	4.2	0.0	2.4	0.0	4.5	3.5	4.8	0.0	0.0	-	-	4.9	0.9	1.5	3.1	0.0	4.7	0.0	4.9
REW	5.0	4.2	0.0	2.4	0.0	4.5	3.5	4.8	0.0	0.0	-	-	4.9	0.9	1.5	3.0	0.0	4.7	0.0	4.9

Ref. No.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0.0	0.0	5.0	0.0	4.8	4.8	0.0	0.0	5.0	0.0	4.7	4.8	1.4	2.1	5.0	2.2	0.0	2.5	4.8	0.0
PLAY	0.0	0.0	5.0	4.8	0.0	0.0	0.0	0.0	5.0	0.0	4.7	4.9	1.4	2.1	5.0	1.9	0.0	2.5	4.9	0.0
REC	0.0	4.8	5.0	4.8	0.0	0.0	0.0	0.0	5.0	0.0	4.7	4.8	0.0	3.4	5.0	2.2	0.0	2.5	4.8	0.0
F.F	0.0	0.0	5.0	4.8	4.8	0.0	0.0	0.0	5.0	0.0	4.7	4.9	1.4	2.1	5.0	2.2	0.0	2.5	4.9	0.0
REW	0.0	0.0	5.0	4.8	4.9	0.0	0.0	0.0	5.0	0.0	4.7	4.9	1.4	2.1	5.0	2.2	0.0	2.5	4.9	0.0

Ref. No.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	2.2	1.9	1.0	2.0	0.3	0.0	0.0	0.0	4.9	0.0	0.0	4.8	0.0	0.0	0.0	5.2	5.2	0.0	0.0	2.7
PLAY	1.9	1.9	1.0	1.6	0.3	0.0	0.0	0.0	4.9	0.0	0.0	4.8	0.0	0.0	0.0	5.2	5.2	0.0	2.5	2.5
REC	2.2	1.9	1.0	2.0	4.5	0.0	0.0	0.0	4.8	0.0	0.0	4.8	0.0	0.0	0.0	5.2	5.2	0.0	2.4	2.5
F.F	2.2	1.9	1.0	2.0	0.3	0.0	0.0	0.0	4.9	0.0	0.0	4.8	0.0	0.0	0.0	5.2	5.2	0.0	2.9	2.5
REW	2.2	1.9	1.0	2.0	0.3	0.0	0.0	0.0	4.9	0.0	0.1	4.8	0.0	0.0	0.0	5.2	5.2	0.0	2.9	2.5

Ref. No.	IC6001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	4.9	0.0	0.0	0.0	4.9	5.2	5.2	5.2	5.2	0.0	0.0	0.0	0.1	0.1	5.0	4.9	0.0	0.0	5.0	5.0
PLAY	4.8	0.4	0.0	0.0	2.4	4.9	4.9	4.9	5.2	0.0	0.0	0.0	5.0	5.0	5.0	4.9	2.7	2.4	4.9	4.9
REC	4.8	0.4	0.0	0.0	2.4	4.9	4.9	4.9	5.2	5.2	5.2	0.0	4.9	4.8	5.0	4.8	2.7	2.4	4.9	4.9
F.F	4.8	4.8	0.0	0.0	2.4	4.9	4.9	4.9	5.2	5.2	5.2	0.0	2.4	2.3	5.1	4.8	2.7	2.5	5.0	5.0
REW	4.8	4.8	4.8	0.0	2.4	4.9	4.9	4.9	5.2	5.2	5.2	0.0	2.3	2.4	5.1	4.9	2.7	2.5	5.0	5.0

Ref. No.	IC6001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116				
STOP	0.0	0.0	2.5	2.5	0.0	0.0	0.0	2.5	2.5	0.0	2.5	2.5	2.5	2.5	5.1	5.1				
PLAY	0.0	0.0	2.5	2.5	0.0	0.0	1.0	2.5	2.5	0.0	2.5	2.5	2.5	2.5	5.1	5.1				
REC	0.0	0.0	2.5	2.5	0.0	0.0	1.0	2.5	2.5	0.0	1.9	2.3	2.5	2.5	5.1	5.1				
F.F	0.0	1.6	2.5	2.5	0.0	0.0	1.0	2.5	2.5	0.0	2.5	2.5	2.6	2.6	5.1	5.1				
REW	0.0	1.6	2.5	2.5	0.0	0.0	1.0	2.5	2.5	0.0	2.5	2.5	2.6	2.6	5.1	5.1				

Ref. No.	IC6002																			
MODE	1	2	3	4	5	6	7	8												
STOP	0.0	0.0	0.0	0.0	4.9	4.9	4.8	5.0												
PLAY	0.0	0.0	0.0	0.0	4.9	5.0	4.9	5.0												
REC	0.0	0.0	0.0	0.0	4.9	4.9	4.8	5.0												
F.F	0.0	0.0	0.0	0.0	5.0	5.0	4.9	5.0												
REW	0.0	0.0	0.0	0.0	5.0	5.0	4.8	5.1												

Ref. No.	IC6003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0.0	0.0	0.0	4.9	4.9	0.0	0.4	0.0	5.0	2.5	0.0	2.6	0.0	2.6	2.6	1.4	1.3	0.0	5.0	5.0
PLAY	0.0	0.0	0.0	5.0	4.9	0.0	0.4	0.0	5.0	2.5	0.0	2.6	0.0	2.6	2.6	1.4	1.3	0.0	5.0	5.0
REC	0.0	0.0	0.0	4.9	4.9	0.0	0.4	0.0	5.0	2.5	0.0	2.6	0.0	2.6	2.6	1.4	1.3	0.0	5.0	5.0
F.F	0.0	0.0	0.0	5.0	5.0	0.0	0.4	0.0	5.1	2.5	0.0	2.6	0.0	2.6	2.6	1.4	1.3	0.0	5.1	5.1
REW	0.0	0.0	0.0	5.0	5.0	0.0	0.4	0.0	5.1	2.5	0.0	2.6	0.0	2.6	2.6	1.4	1.3	0.0	5.1	5.1

Ref. No.	IC6004																			
MODE	1	2	3	4	5	6														
STOP	0.0	2.2	5.0	2.8	0.0	3.0														
PLAY	4.7	1.9	5.0	2.6	0.0	2.7														
REC	0.0	2.2	5.0	2.8	0.0	3.0														
F.F	0.0	2.2	5.0	2.8	0.0	3.0														
REW	0.0	2.2	5.0	2.8	0.0	3.0														

SYSTEM CONTROL & SERVO TRs DC VOLTAGE CHART (SP MODE)

Ref. No.	Q1501			Q1502			Q6002			Q6004			Q6005					
MODE	E	C		E	C		E	C	B	E	C	B	1	2	3	4	5	6
STOP	4.7	0.0		4.9	0.0		2.9	0.0	2.2	1.4	0.0	0.8	5.0	0.0	0.0	0.5	0.0	0.0
PLAY	4.8	0.0		5.0	0.0		2.5	0.0	1.9	1.4	0.0	0.8	5.0	0.0	0.0	0.5	0.0	0.0
REC	4.7	0.0		4.9	0.0		2.9	0.0	2.2	1.4	0.0	0.8	5.0	0.0	0.0	0.5	0.0	0.0
F.F	4.7	0.0		5.1	0.0		2.9	0.0	2.2	1.4	0.0	0.8	5.0	0.0	0.0	0.5	0.0	0.0
REW	4.8	0.0		5.1	0.0		2.9	0.0	2.2	1.4	0.0	0.8	5.0	0.0	0.0	0.5	0.0	0.0

Ref. No.	Q6007			Q6008		
MODE	E	C	B	E	C	B
STOP	0.0	4.4	0.0	-0.1	11.8	0.0
PLAY	0.0	4.4	0.0	11.2	11.8	11.8
REC	0.0	4.7	0.0	-0.1	11.8	0.0
F.F	0.0	4.4	0.0	0.0	11.8	0.0
REW	0.0	4.4	0.0	0.0	11.8	0.0

Ref. No.	QR6001			QR6002					QR6003			QR6004			QR6007		
MODE	E	C	B	1	2	3	4	5	E	C	B	E	C	B	E	C	B
STOP	0.0	0.0	4.8	1.9	2.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	4.8	0.0	0.0	4.7
PLAY	0.0	11.8	0.0	1.9	2.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	4.8	0.0	0.0	4.7
REC	0.0	0.0	4.8	1.5	1.7	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	4.8	0.0	0.0	4.7
F.F	0.0	0.0	4.8	0.2	0.4	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	4.8	0.0	0.0	4.7
REW	0.0	0.0	4.8	1.3	0.7	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	4.8	0.0	0.0	4.7

443NT [L]	4.43 NTSC Ⓛ
A. COMP	AUDIO COMPONENT SIGNAL
A. COMPO	AUDIO COMPONENT SIGNAL
A. D.P [L]	AUDIO DUBBING PAUSE Ⓛ
A. D/L [L]	AUDIO DUBBING PAUSE Ⓛ
A. DEF [S]	AUDIO DEFEAT
A. DEF [S] [L]	AUDIO DEFEAT
A. DUB P [L]	AUDIO DUBBING PAUSE Ⓛ
A. DUB [H]	AUDIO DUBBING Ⓗ
A. ERASE	AUDIO ERASE
A. H. SW	AUDIO HEAD SWITCHING PULSE
A. HEAD [R]	AUDIO HEAD (REC)
A. HEAD [W]	AUDIO HEAD (PLAY)
A. IN [L]	AUDIO INPUT (L)
A. IN [R]	AUDIO INPUT (R)
A. MUT [H]	AUDIO MUTE Ⓗ
A. MUTE [H]	AUDIO MUTE Ⓗ
A. OUT [L]	AUDIO OUTPUT (L)
A. OUT [R]	AUDIO OUTPUT (R)
A. RF OUT	AUDIO RF SIGNAL OUTPUT
A/VS/S. DATA	AV SW/SERIAL DATA
AC ONLINE	AC ONLINE
AC. O/EE. H	AC ONLINE/EE Ⓗ
AFC S C	AFC S CURVE
AFC [S]	AFC S CURVE
AFC. DEF	AFC DEFEAT
ARFC OUT	AUDIO RF SIGNAL OUTPUT
ART. V	ARTIFICIAL VERTICAL SYNC SIGNAL
ART. V. MM	ARTIFICIAL VERTICAL SYNC SIGNAL MONO MULTI
ART. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL Ⓗ/NORMAL
AT. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL
ATSW/TEST/NOR/SE	TEST/NORMAL/SERVICE
AUDIO IN [L]	AUDIO INPUT (L)
AUDIO IN [R]	AUDIO INPUT (R)
AUDIO OUT [L]	AUDIO OUTPUT (L)
AUDIO OUT [R]	AUDIO OUTPUT (R)
AUDIO SELECT [H]	AUDIO SELECT Ⓗ
AUDIO. L	AUDIO (L)
AUDIO. R	AUDIO (R)
AV CNT	AV CONTROL
AV CTL	AV CONTROL
AV CTL/S. CLK	AV CONTROL/SERIAL CLOCK
AV. C.M.	AV CONTROL MODE
AVCNT/METER. R	AV CONTROL/LEVEL METER (R)
AVSW/METER. L	AV SW/LEVEL METER (L)
B MODE. H	B MODE Ⓗ
B.G.P	BURST GATE PULSE
BACKUP 5V	BACK UP 5V
BAND. U.E.	BAND U
BANDVL. D	BAND VL
BI/MI [L]	BILINGUAL/MIX Ⓛ
BIL	BILINGUAL
BIL [L]	BILINGUAL Ⓛ
BIL. [H]	BILINGUAL Ⓗ
BIL/M1 [L]	BILINGUAL Ⓛ
BS CLOCK	BS CLOCK
BS DATA	BS DATA
BS LCH IN	BS L CHANNEL INPUT
BS MIX [H]	BS MIX Ⓗ
BS MON [H]	BS MONITOR Ⓗ
BS MONI [H]	BS MONITOR Ⓗ
BS RCH IN	BS R CHANNEL INPUT
BS VIDEO	BS VIDEO SIGNAL
BS VIDEO/BS1	BS VIDEO SIGNAL
BS [H]	BS Ⓗ
BS. LEVEL	BS LEVEL
BS. M [H]	BS MONITOR Ⓗ
BS/VTR [H]	BS/VTR Ⓗ
BUS CLK	BUS CLOCK
BUS LSN	BUS LISTEN
BUS TLK	BUS TALK
BUZZER	BUZZER
CAP EC	CAPSTAN TORQUE CONTROL
CAP M GND	CAPSTAN MOTOR GND
CAP. ET	CAPSTAN TORQUE CONTROL
CAP. FG1	CAPSTAN FG1 PULSE
CAP. FG2	CAPSTAN FG2 PULSE
CAS. SW	CASSETTE SW
CCN	PLAYBACK CONTROL SIGNAL (–)
CCP	PLAYBACK CONTROL SIGNAL (+)
CHM	CONTROL SIGNAL (+)
CHP	CONTROL SIGNAL (–)
CINEM [L]	CINEMA Ⓛ
CINEMA [L]	CINEMA Ⓛ
CINEMA/MIX	CINEMA/MIX
CKL	RATCH LOCK
CKS	SHIFT LOCK
CL	CLOCK
CLK	CLOCK
CLK (C.G)	CLOCK
CLOCK. IN	CLOCK INPUT
CLP	CLAMP
COL/B/W/NOR	COLOUR/BLACK & WHITE/NORMAL
COLOR [H]	COLOUR Ⓗ
CONV	CONVERTOR
CS	CHIP SELECT
CTL GND	CONTROL GND
CTL HEAD [+]	CONTROL HEAD (+)
CTL HEAD [–]	CONTROL HEAD (–)
CTL [+]	CONTROL HEAD (+)
CTL [–]	CONTROL HEAD (–)
CUE BIAS	CUE BIAS
CURRENT LIM	CURRENT LIMMITER
CYL ET	CYLINDER TORQUE CONTROL

CYL GND	CYLINDER GND
D.F.M. REC [H]	DELAIED FM RECORDING Ⓗ
D. FM REC [L]	DELAIED FM RECORDING Ⓛ
D. GND	DIGITAL GND
D. REC [H]	DELAYED RECORDING Ⓗ
D4/S. LED	D4/STILL LED
D4/STILLED	D4/STILL LED
DAC [CLK]	TUNER DAC (CLOCK)
DAC/FSCS	TUNER DAC/FS CHIP SELECT
DAREC [H]	DELAYED AUDIO RECORDING Ⓗ
DATA	DATA
DECODER [L]	DECODER (L)
DECODER [R]	DECODER (R)
DEW	DEW
DEW SNS	DEW SENSOR
DFMRE [H]	DELAYED FM AUDIO RECORDING Ⓗ
E. REC 5V	EXCEPT RECORDING 5V
EC	ERROR TORQUE CONTROL
ECR	ERROR TORQUE CONTROL REFERENCE VOLTAGE
EDT TRIG [L]	EDIT TRIGGER Ⓛ
EDIT [H]	EDIT Ⓗ
EE [H]	EE Ⓗ
EE [H]/INS [M]	EE Ⓗ/INSERT Ⓜ
EE. VV. TR	EE/VV/TRICK PLAY
EJECT. PO	EJECT POSITION
EJECT/VDET	EJECT/REVERSE SLOW LOCK
ENV. SEL	ENVELOPE SELECT
ENVE. OUT	ENVELOPE OUTPUT
ENVE. SEL	ENVELOPE SELECT
ENV SELECT	ENVELOPE SELECT
EP [H]	LP Ⓗ
EP/LP [H]	LP Ⓗ
EP/LP/SP	LP/SP
EP/SS [H]	LP/SLOW/STILL/STOP Ⓗ
EPROMCS	EPROM CHIP SELECT
EX. REC 5V	EXCEPT RECORDING 5V
FF/REW [L]	FIRST FORWARD/REWIND Ⓛ
FG1 IN	FG1 PULSE INPUT
FG2 IN	FG2 PULSE INPUT
FILTER ADJUSTMENT	FILTER ADJUSTMENT
FLY ERASE [H]	FLYING ERASE HEAD ON Ⓗ
FLY ON [H]	FLYING ERASE HEAD ON Ⓗ
FLY. E [H]	FLYING ERASE HEAD ON Ⓗ
FM MUT [H]	FM AUDIO MUTE Ⓗ
FM MUTE [H]	FM AUDIO MUTE Ⓗ
FM OUT [L]	FM OUTPUT (L)
FM OUT [R]	FM OUTPUT (R)
FM PACK OUT [L]	FM PACK OUTPUT (L)
FM PACK OUT [R]	FM PACK OUTPUT (R)
FM/BS SEL [L]	FM/BS SELECT (L)
FM/BS SEL [R]	FM/BS SELECT (R)
FS. CLK	FS CLOCK
FUL. E [H]	FULL ERASE HEAD ON Ⓗ
FULL. E [H]	FULL ERASE HEAD ON Ⓗ

FULL. E. 12V	FULL ERASE 12V
GND [A]	GND (ANALOG)
GND [TU]	GND (TUNER)
GND/N. SW. 12V	GND/NON SW 12V
H. SYNC	HORIZONTAL SYNC
H. AMP. SW	HEAD AMP SW PULSE
H. P <R>	HEAD PHONE (R)
H. P <L>	HEAD PHONE (L)
H. P GND	HEAD PHONE GND
H. P OUT [L]	HEAD PHONE OUTPUT (L)
H. P OUT [R]	HEAD PHONE OUTPUT (R)
H. SW	HEAD SW PULSE
HEAD PHONE [L]	HEAD PHONE (L)
HEAD PHONE [R]	HEAD PHONE (R)
HEAD SW	HEAD SW
HEATER [+]	HEATER (+)
HEATER [–]	HEATER (–)
HSS	HORIZONTAL SYNC SIGNAL
HTR [+]	HEATER (+)
HTR [–]	HEATER (–)
I RFE	REFERENCE CURRENT
ICL	CONTROL AGC CIRCUIT
IF	INTERMEDIATE FREQUENCY
IN SELA1	INPUT SELECT A1 POSITION
IN SELA2	INPUT SELECT A2 POSITION
IN SELA3	INPUT SELECT A3 POSITION
INS L/R [L]	INSERT Lch/Rch Ⓛ
INS. [H]	INSERT Ⓗ
INSEL A1	INPUT SELECT A1 POSITION
INSEL A2	INPUT SELECT A2 POSITION
INSERT	INSERT
INSERT [H]	INSERT Ⓗ
IO CS	INPUT/OUTPUT CHIP SELECT
JOG1	JOG1
JOG S3 LED/FOWRD	JOG LED/FORWARD LED
JOG/F. LED	JOG LED/FORWARD LED
JSB [H]	JSB Ⓗ
JST. CLCK	JUST CLOCK
JST. CLK	JUST CLOCK
JST. CLOCK	JUST CLOCK
L. OUT	Lch OUTPUT
L. CH [H]	Lch Ⓗ
L. CH [L]	Lch Ⓛ
LED (MAIN)	LED (MAIN)
LED (STEREO)	LED (STEREO)
LED (SUB)	LED (SUB)
LED CKL	LED SERIAL CLOCK
LED CKS	LED SERIAL CLOCK
LED DATA	LED SERIAL DATA
LINE IN 1 [L]	LINE INPUT 1 (L)
LINE IN 1 [R]	LINE INPUT 1 (R)
LINE IN 2 [L]	LINE INPUT 2 (L)
LINE IN 2 [R]	LINE INPUT 2 (R)
LINE IN V	LINE INPUT VIDEO
LINE IN [L]	LINE INPUT (L)

LINE IN [R]	LINE INPUT (R)
LINE OUT [L]	LINE OUTPUT (L)
LINE OUT [R]	LINE OUTPUT (R)
LP [H]	LP Ⓗ
LPTRI [L]	LP TRICK PLAY Ⓛ
Lch/A. DUB	Lch/AUDIO DUBBING
M GND	MOTOR GND
M REG	MOTOR REGULATOR
MAIN OUT	MAIN OUTPUT
MAIN [L]	MAIN Ⓛ
MAIN/MONO	MAIN/MONAURAL
MAX IN	MAXIMAM INPUT
MES [H]	MESECAM Ⓗ
MESE [H]	MESECAM Ⓗ
MESE [L]	MESECAM Ⓛ
METER 5V	LEVEL METER 5V
METER [L]	LEVEL METER (L)
METER [R]	LEVEL METER (R)
METER. L/AVS	LEVEL METER (L)
METER. R/AVC	LEVEL METER (R)
MI/BI [L]	MIX Ⓗ/BILIGUAL
MIC GND	MIC GND
MIC IN	MIC INPUT
MIC IN [L]	MIC INPUT (L)
MIC IN [R]	MIC INPUT (R)
MIC [H]	MIC Ⓗ
MIX [H]	MIX Ⓗ
MIX [H]/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ
MIX/CINE	MIX Ⓗ/CINEMA SOUND Ⓛ
MIX/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ
MN. H/M. L	MONAURAL Ⓗ/MAIN Ⓛ
MN. H/MAI. L	MONAURAL Ⓗ/MAIN Ⓛ
MN2/MES. L	MONAURAL 2/MESECAM Ⓛ
MODE SEL	AUDIO MODE SELECT
MODE SW	AUDIO MODE SW
MODE. S. IN	AUDIO MODE SELECT INPUT
MODE. S. OUT	AUDIO MODE SELECT OUTPUT
MONO [H]	MONAURAL Ⓗ
MONO [H]/MAIN [L]	MONAURAL Ⓗ/MAIN Ⓛ
MONO2 [L]	MONAURAL 2
MONO2/MESE [FM(L)]	MONAURAL 2/MESECAM (FM Ⓛ)
MOTOR GND	MOTOR GND
MUTE	MUTE
N. A. REC [L]	NORMAL AUDIO RECORDING
N. SW 12V	NON SW 12V
N. SW. 5. DET	NON SW 5V DETECT
NICAM	NICAM
NICAM [L]	NICAM Ⓛ
NOL [H]	PAL Ⓗ/4.43 NTSC Ⓜ/3.58 NTSC Ⓛ
NOR/SOFT [H]	NORMAL/SOFT TAPE PLAY Ⓗ
NORMAL [H]	NORMAL Ⓗ
NR BIAS	NR BIAS
NTSC [L]	NTSC Ⓛ
OCH	CONTROL AGC CIRCUIT
OUT	OUTPUT

P-OFF [H]	POWER OFF Ⓗ
P-OFF [L]	POWER OFF Ⓛ
P. FAIL	POWER FAILURE DETECT
P. OFF [H]	POWER OFF Ⓗ
P. OFF [L]	POWER OFF Ⓛ
PAL [H]	PAL Ⓗ
PAL [L]/NTSC [H]	PAL Ⓛ/NTSC Ⓗ
PB ADJ OUT	PLAYBACK ADJUST OUTPUT
PB OUT	PLAYBACK OUTPUT
PB. H	PLAYBACK Ⓗ
PFG	PG/FG
PHOTSN +B	PHOTO SENSOR +B
PICT. CNT	PICTURE CONTROL
PLAY LED/RVS LED	PLAY LED/REVERSE LED
PLAY. PO	PLAY POSITION
PLAY/R. LED	PLAY LED/REVERSE LED
PLY/DEW	PLAY/DEW Ⓗ
POWER OFF [L]	POWER OFF Ⓛ
PREROLL [H]	PREROLL Ⓗ
PWRFAIL	POWER FAILURE DETECT
R. CH [H]	Rch Ⓗ
R. CH [L]	Rch Ⓛ
R. ST	RESET
R/S/F	REVERSE Ⓗ/STOP Ⓜ/FORWARD Ⓛ
RCH [H]	Rch Ⓗ
REC 12V	RECORDING 12V
REC CHROMA	RECORDING CHROMINANCE SIGNAL
REC H	RECORDING Ⓗ
REC IN	RECORDING INPUT
REC OUT [L]	RECORDING OUTPUT Ⓛ
REC START	RECORDING START
REC VR [C]	RECORDING VOLUME (COMMON)
REC VR [L]	RECORDING VOLUME (L)
REC VR [R]	RECORDING VOLUME (R)
REC Y	RECORDING LUMINANCE SIGNAL
REC [H]	RECORDING Ⓗ
REC. C	RECORDING CHROMINANCE SIGNAL
REC. Y	RECORDING LUMINANCE SIGNAL
REC/EE CTL	RECORDING/EE CONTROL
REEL-T	REEL PULSE (TAKE-UP)
REEL-S	REEL PULSE (SUPPLY)
REGULATOR FILTER	REGULATOR FILTER
RESET	RESET
REV M F/R	REVIEW MOTOR FORWARD/REVERSE
REV M V1	REVIEW MOTOR V1
REV M V2	REVIEW MOTOR V2
REV MOTOR F/R	REVIEW MOTOR FORWARD/REVERSE
REV MOTOR V1	REVIEW MOTOR V1
REV MOTOR V2	REVIEW MOTOR V2
REV MOTOR [+]	REVIEW MOTOR (+)
REV MOTOR [–]	REVIEW MOTOR (+)
REV. M. GND	REVIEW MOTOR GND
RF. CHROMA	RF CHROMINANCE SIGNAL

RF OUT	RF OUTPUT
RF Y	RF LUMINANCE SIGNAL
RF. Y. IN	RF LUMINANCE SIGNAL INPUT
RF. Y. OUT	RF LUMINANCE SIGNAL OUTPUT
ROTAR. SW	ROTARY SW
ROTARY	ROTARY SW
RST	RESET
RST [L]	RESET Ⓛ
Rch/INST	Rch/INSERT
S IN	SERIAL DATA INPUT
S OUT	SERIAL DATA OUTPUT
S-PHOTO	SUPPLY PHOTO TRANSISTOR
S-RL. PLS	SUPPLY REEL PULSE
S. CLK	SERIAL CLOCK
S. CLK/AV	SERIAL CLOCK/AV
S. DATA	SERIAL DATA
S. DATA/A	SERIAL DATA
S. PHOTO	SUPPLY PHOTO TRANSISTOR
S. TAB [L]	SAFETY TAB SW ON Ⓛ
S/P/N	SECAM/PAL/NTSC
SC IN	SERIAL CLOCK INPUT
SC OUT	SERIAL CLOCK OUTPUT
SCK SELECT	SERIAL CLOCK SELECT
SEL OUT [L]	SELECT OUTPUT (L)
SEL OUT [R]	SELECT OUTPUT (R)
SHUTTLE 1	SHUTTLE 1
SIF	SOUND INTERMEDIATE FREQUENCY
SLMUT [H]	INPUT SELECT MUTE Ⓗ
SLNID [+]	SOLENOID (+)
SLNID [–]	SOLENOID (–)
SLW TR. MM	SLOW TRACKING MONO MULTI
SLW TR. REF	SLOW TRACKING REFERENCE VOLTAGE
SNS. GND	SENSOR GND
SOFT [H]	SOFT TAPE PLAY Ⓗ
SOFT [H]/NORMAL	SOFT TAPE PLAY Ⓗ/NORMAL Ⓗ
SOLENOID ON [L]	SOLENOID ON Ⓛ
SP [H]	SP Ⓗ
SP/L/SLP	SP/LP
SSS [L]	SLOW/STILL/STOP
STEREO LED	STEREO LED
STEREO [H]	STEREO Ⓗ
STEREO [L]	STEREO Ⓛ
STOP. PO	STOP POSITION
STOP/5V	STOP POSITION/5V
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT
STOP1/PAL:ST	STOP1 POSITION/PAL
STOP2. PO	STOP 2 POSITION
STOP2/S-TAB	STOP 2 POSITION/SAFETY TAB SW
STREO [H]	STEREO Ⓗ
SUB BIAS	SUB BIAS
SUB. SW	SUB SW
SVHS CAS [L]	S-VHS CASSETTE Ⓛ
SW. 5. DET	SW 5V DETECT
SYNC [L]	SYNC Ⓛ
SYSCON 5V	SYSTEM CONTROL 5V
SYSTEM	SYSTEM SW
T-PHOTO	TAKE-UP PHOTO TRANSISTOR
T-RL. PLS	TAKE-UP REEL PULSE
T. BUSCLK	TIMER BUS CLOCK
T. BUSLSN	TIMER BUS LISTEN
T. BUSTLK	TIMER BUS TALK
T. END [L]	TAPE END Ⓛ
T. PHOTO	TAKE-UP PHOTO TRANSISTOR
TAPE END [L]	TAPE END Ⓛ
TAPE END [L]/CAM	TAPE END Ⓛ/CAMERA PAUSE
TEST	TEST MODE
TPZ	TRAPEZOIDAL WAVE CIRCUIT
TRIC [L]	TRIC PLAY Ⓛ
TRICK [L]	TRIC PLAY Ⓛ
TRK. ENV	AUTO TRACKING ENVELOPE DETECT
TU. AUDIO	TUNER AUDIO
TU. GND	TUNER GND
TU. V. IN	TUNER VIDEO SIGNAL INPUT
TU. VIDEO	TUNER VIDEO
TUN NOR IN	TUNER NORMAL INPUT
TUN R	TUNER AUDIO (R)
TUN. AUDIO IN	TUNER AUDIO INPUT
TUNER 12V	TUNER 12V
TUNER L	TUNER AUDIO (L)
TUNER V IN	TUNER VIDEO SIGNAL INPUT
TUNER [L]	TUNER AUDIO (L)
TUNER [N]	TUNER AUDIO (NORMAL)
TUNER [R]	TUNER AUDIO (R)
TUNER. 12	TUNER 12V
TUOFF [H]	TUNER OFF Ⓗ
TV. AUDIO	TV AUDIO
TV/VTR	TV/VTR
TXTON [L]	TEXT ON Ⓛ
U. REG45V	UNREGULATOR 45V
UNREG	UNREGULATOR
UNREG19V	UNREGULATOR 19V
V. REF	REFERENCE VOLTAGE
V. EE [H]	VIDEO EE Ⓗ
V. EE [L]	VIDEO EE Ⓛ
VCO REF	REFERENCE OSCILLATER
VD. IN	VIDEO SIGNAL INPUT
VD. OUT	VIDEO SIGNAL OUTPUT
VIDEO EE [L]	VIDEO EE Ⓛ
VIDEO IN	VIDEO SIGNAL INPUT
VIDEO OUT	VIDEO SIGNAL OUTPUT
VM	MOTOR VOLTAGE
VM DOWN [L]	MOTOR VOLTAGE DOWN Ⓛ
VSS	VERTICAL SYNC SIGNAL
VTR [H]	VTR Ⓗ
VTR. 12V	VTR 12V
X IN	OSCILLATOR INPUT
X OUT	OSCILLATOR OUTPUT

For your safety please read the following text carefully

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS 1362.

Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstance should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol ⏚.

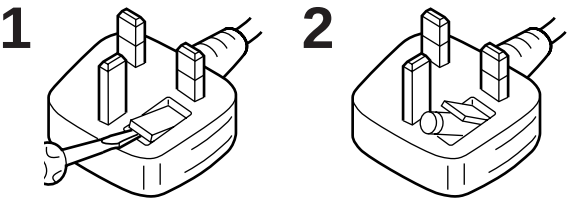
How to replace the Fuse

- There are two types of the AC Mains Lead assembly: **A** and **B** as shown below.

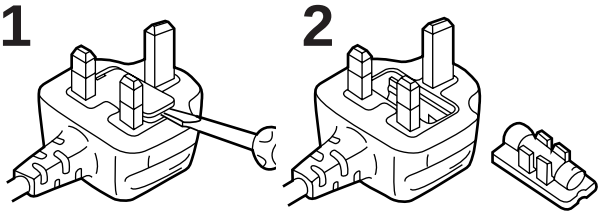
1 Open the fuse compartment with a screwdriver.

2 Replace the fuse and fuse cover.

TYPE A



TYPE B



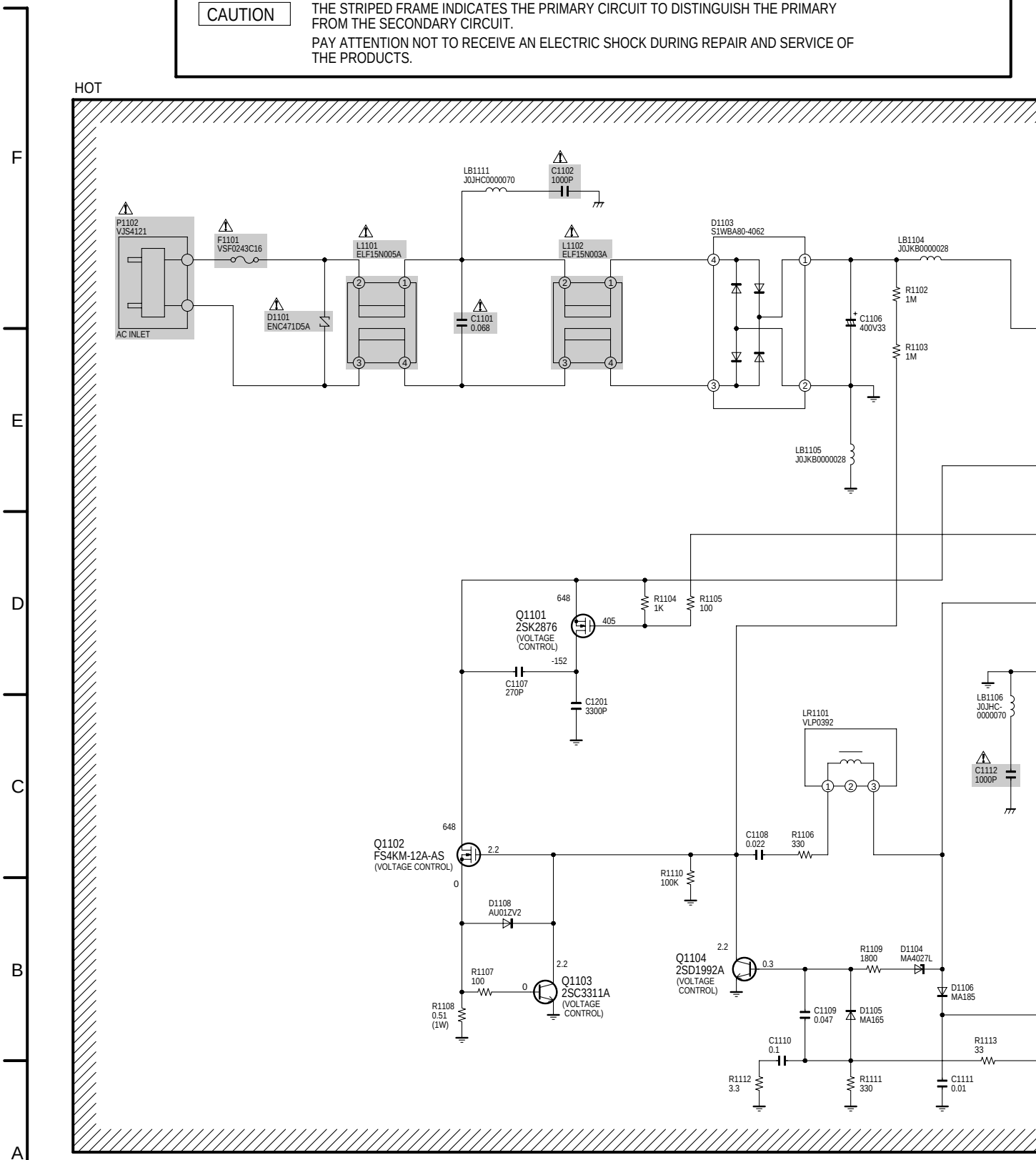
8 SCHEMATIC DIAGRAMS

8.1. POWER TRANSFORMER SECTION IN MAIN SCHEMATIC DIAGRAM

CAUTION

THE STRIPED FRAME INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.

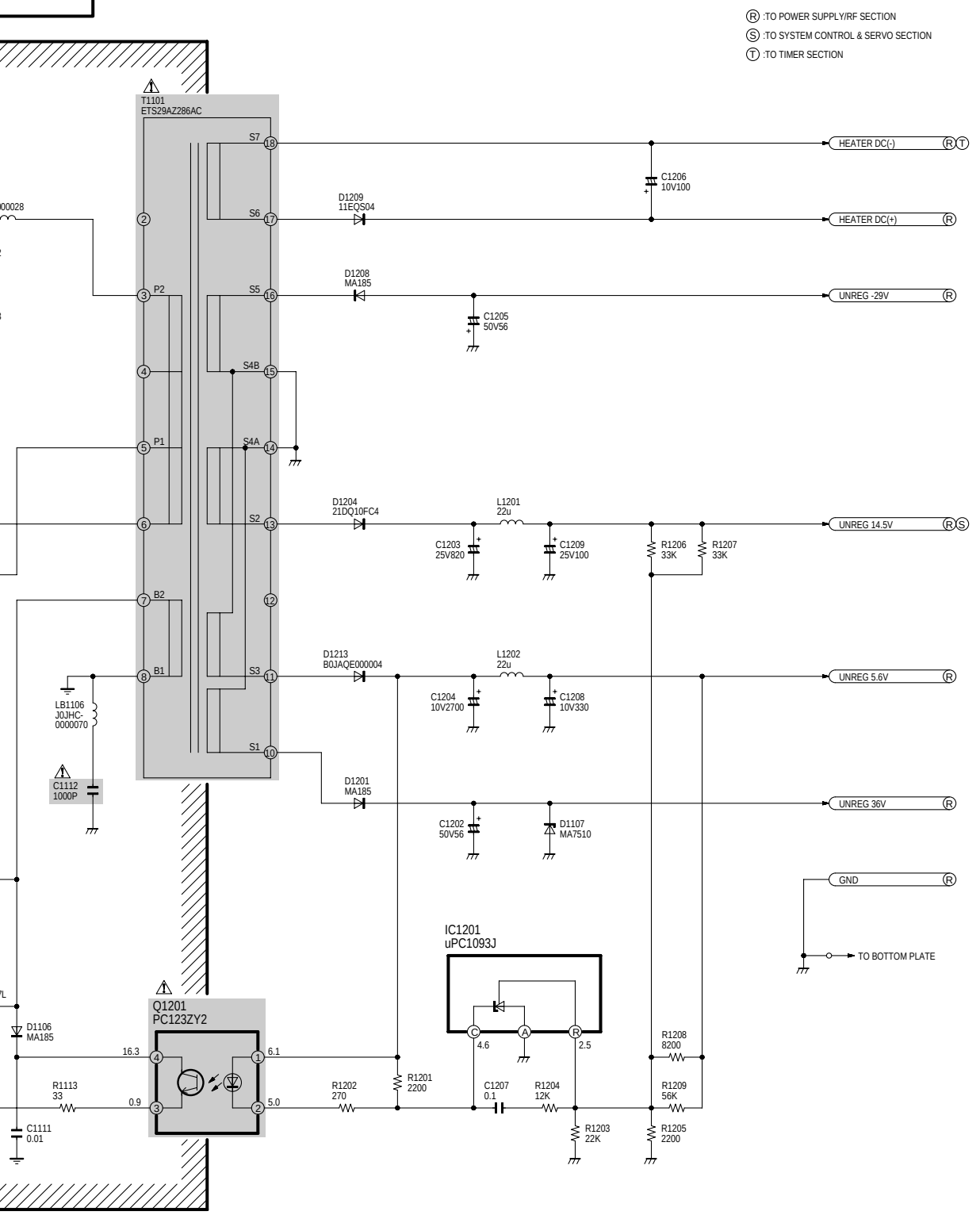
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,USE ONLY THE SAME TYPE.

NOTE1:WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT,SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE..... ⏚
SECONDARY SIDE... ⏚

NOTE2:THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 240V.



TRANSFORMER
LOWS.

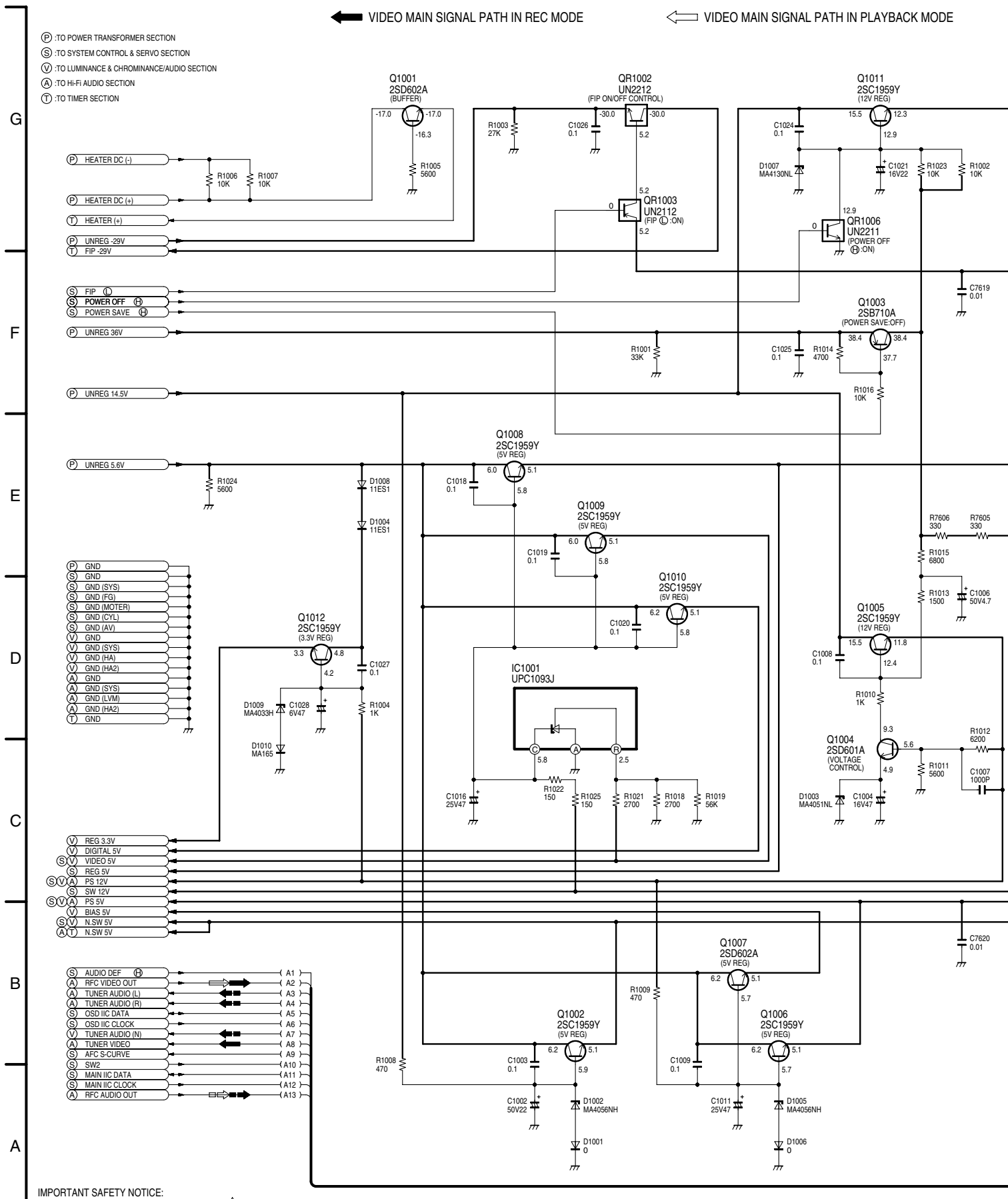
OLTAGE WHEN

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.
NOTE:THE MEASURMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NV-HS880EG/B/EC/EE
POWER TRANSFORMER
SECTION SCHEMATIC DIAGRAM

6 7 8 9 10

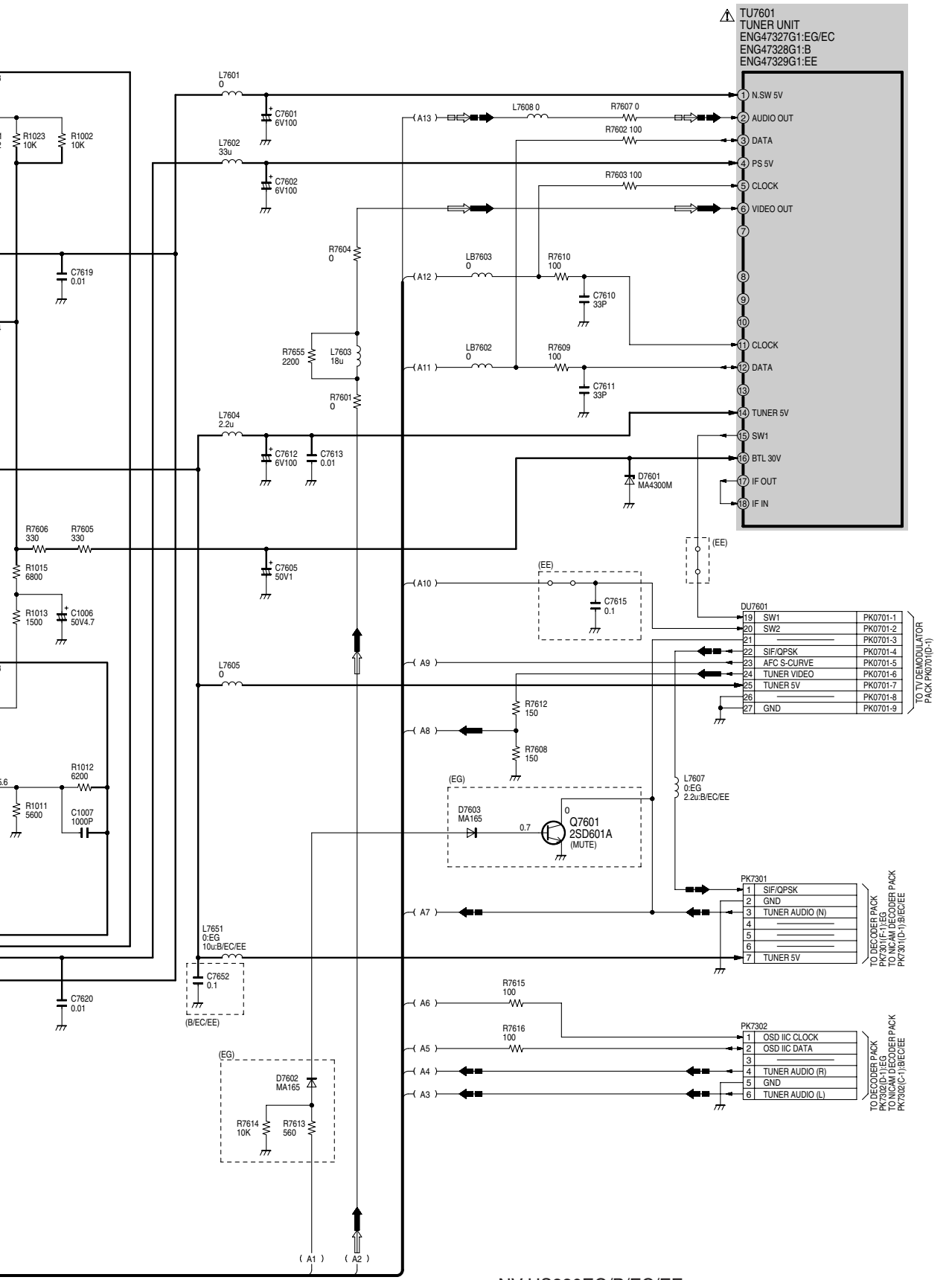
8.2. POWER SUPPLY/ RF SECTION IN MAIN SCHEMATIC DIAGRAM



CK MODE

AUDIO MAIN SIGNAL PATH IN REC MODE

AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



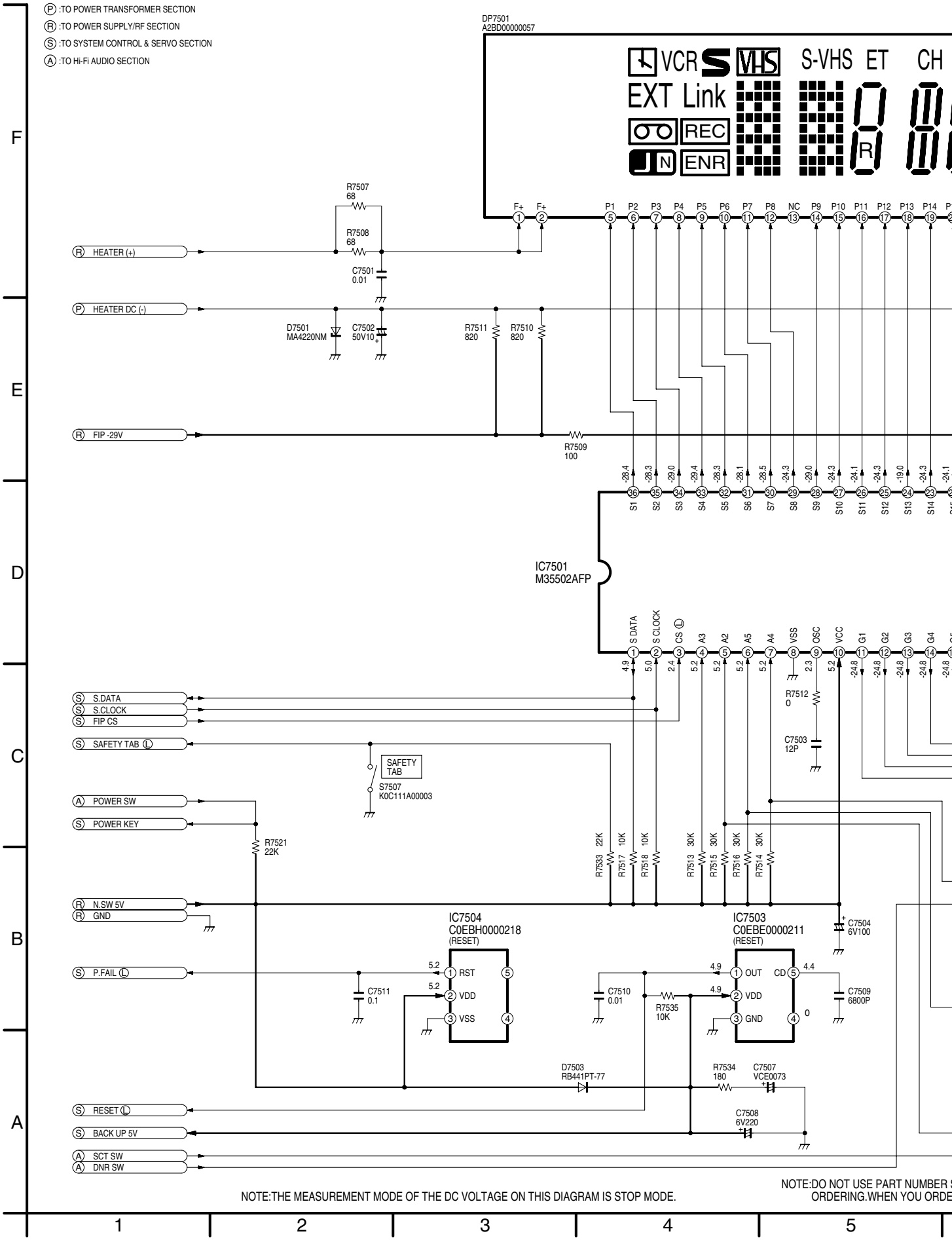
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

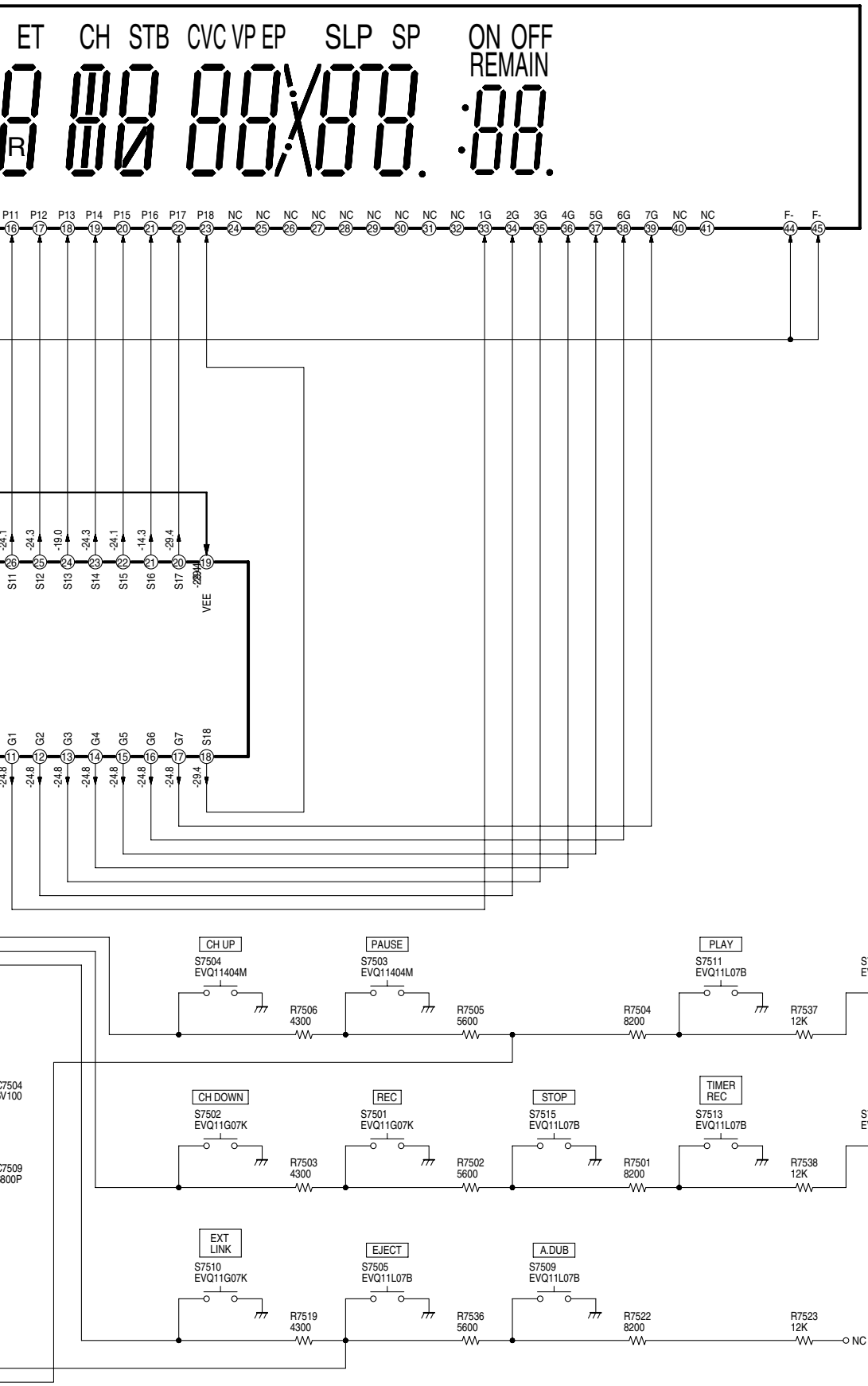
P MODE.

NV-HS880EG/B/EC/EE
POWER SUPPLY/RF SECTION SCHEMATIC DIAGRAM

6 | 7 | 8 | 9 | 10

8.3. TIMER SECTION IN MAIN SCHEMATIC DIAGRAM



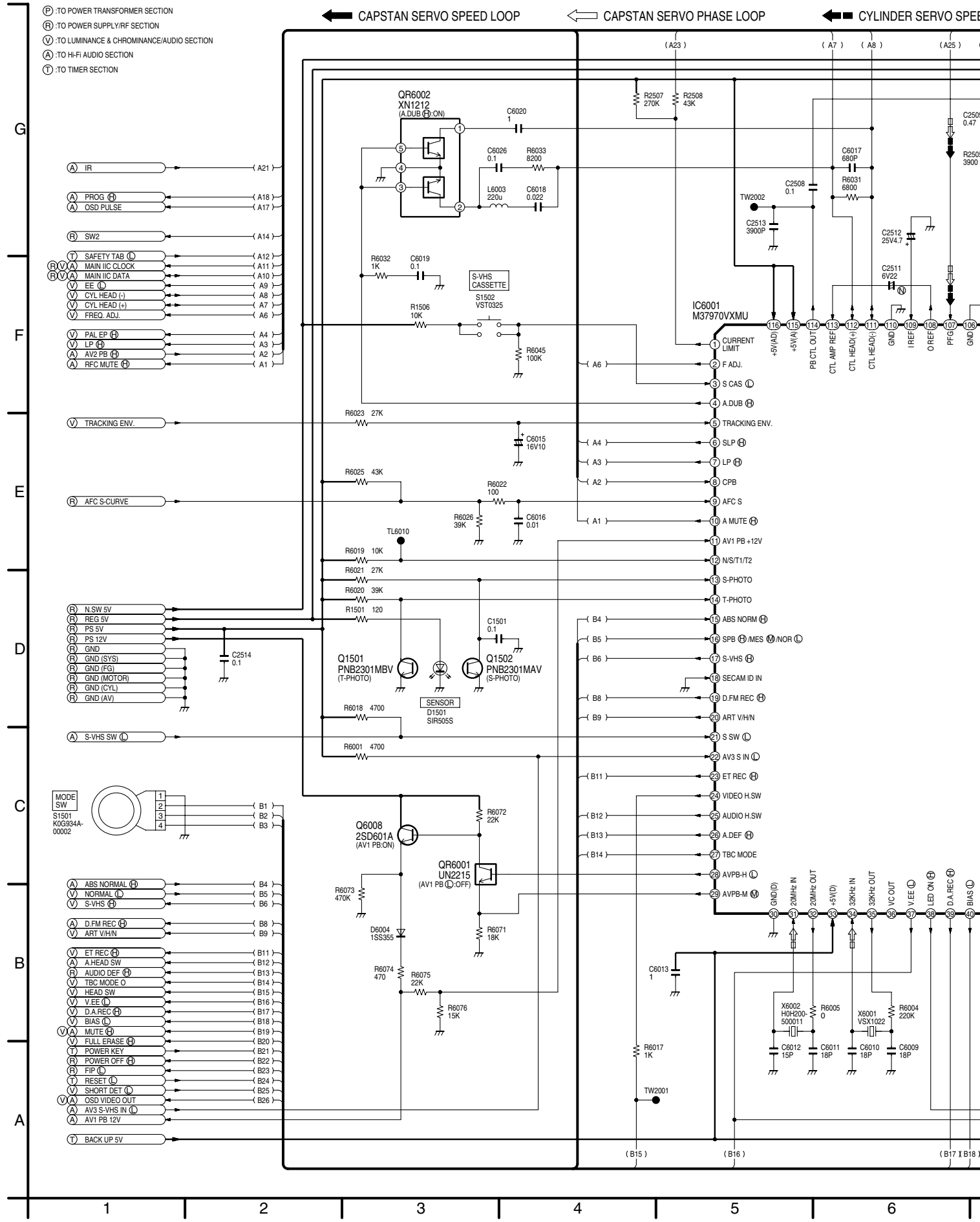

ET CH STB CVC VP EP SLP SP
ON OFF
REMAIN
P11 P12 P13 P14 P15 P16 P17 P18 NC NC NC NC NC NC NC NC NC 1G 2G 3G 4G 5G 6G 7G NC NC F- F-
S11 S12 S13 S14 S15 S16 S17 S18
VEE
G1 G2 G3 G4 G5 G6 G7

USE PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR
NG.WHEN YOU ORDER A PART,PLESE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
TIMER SECTION SCHEMATIC DIAGRAM

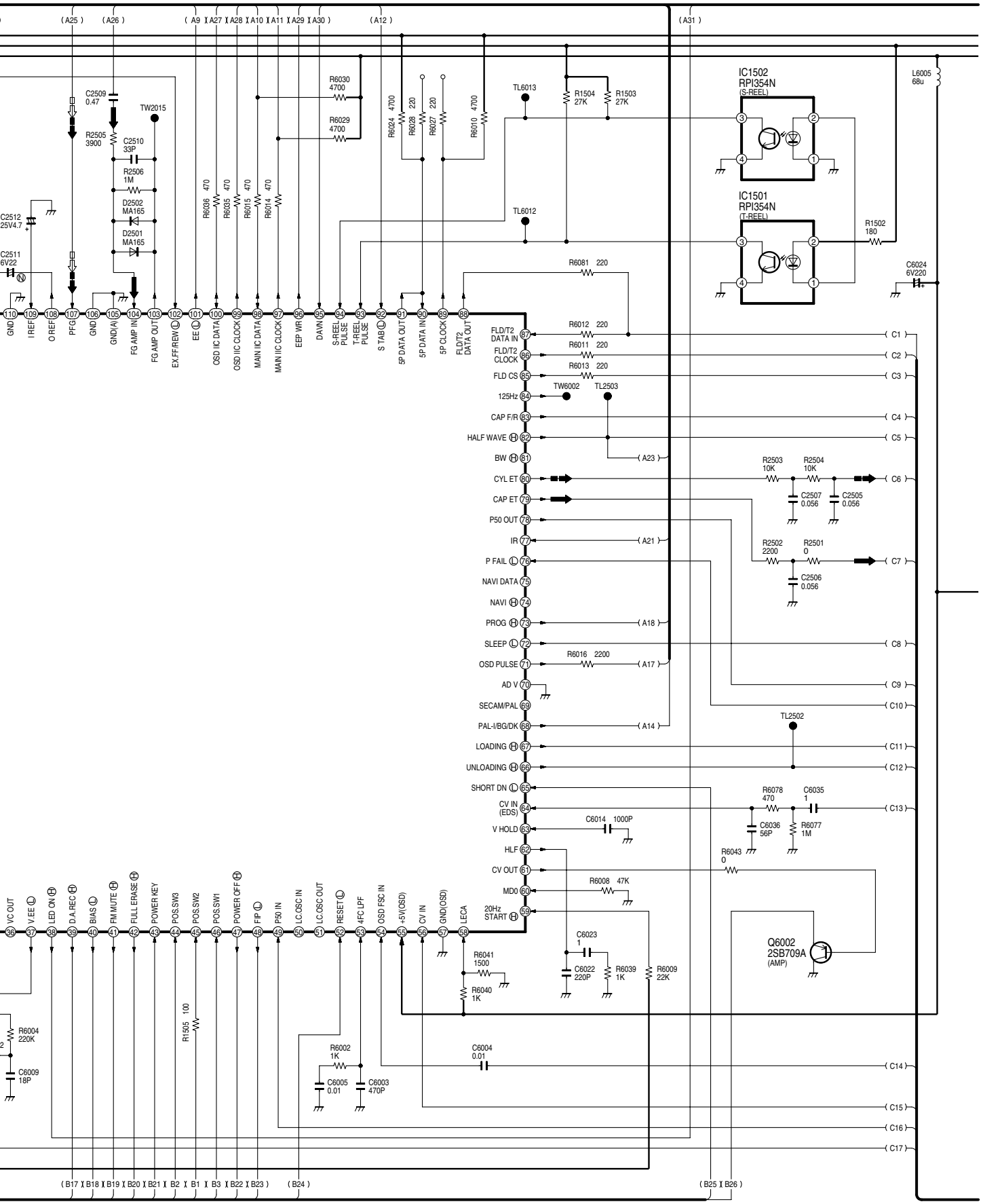
5 | 6 | 7 | 8 | 9

8.4. SYSTEM CONTROL & SERVO SECTION IN MAIN SCHEMATIC DIAGRAM



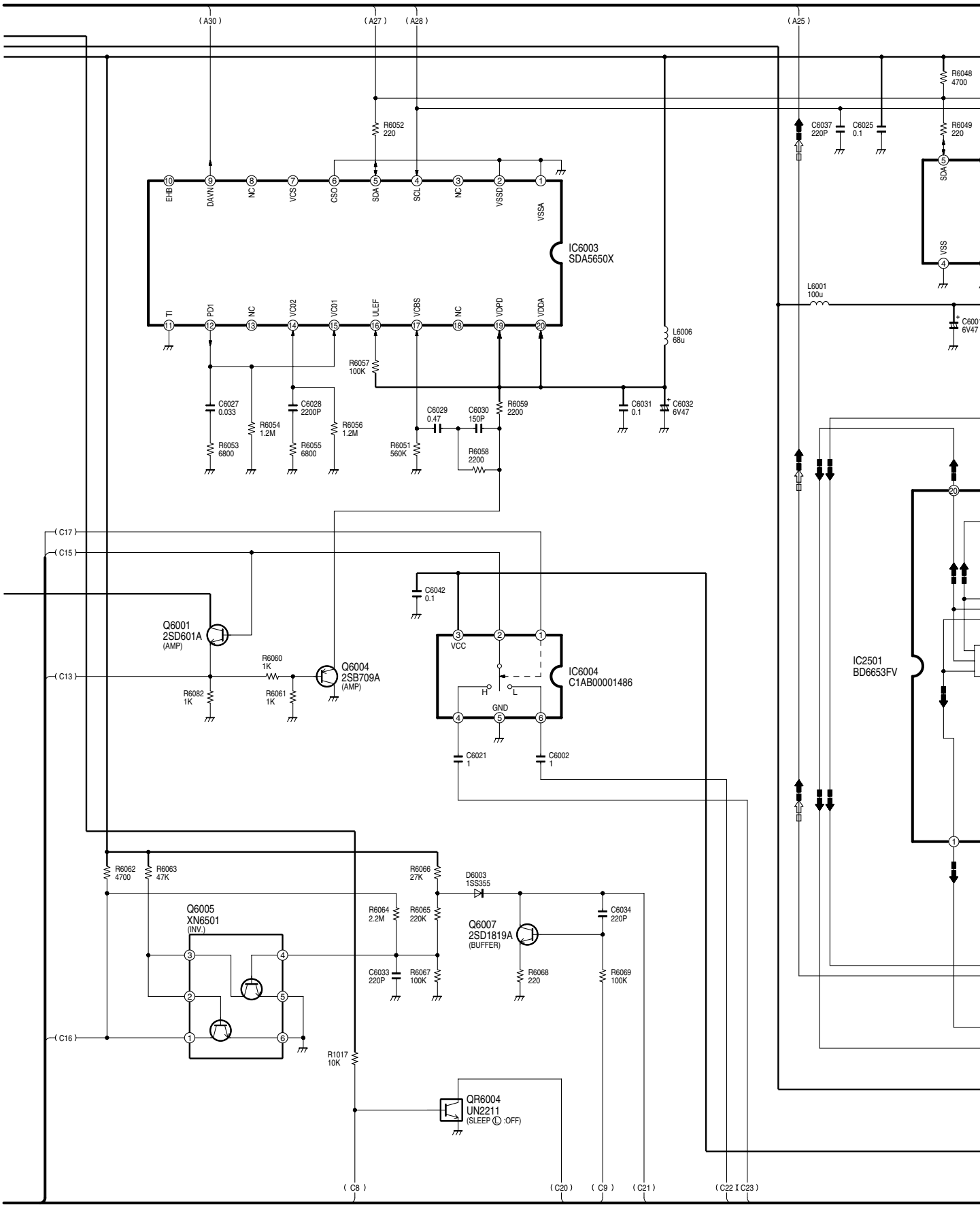
AM

NDER SERVO SPEED LOOP ⇦□ CYLINDER SERVO PHASE LOOP



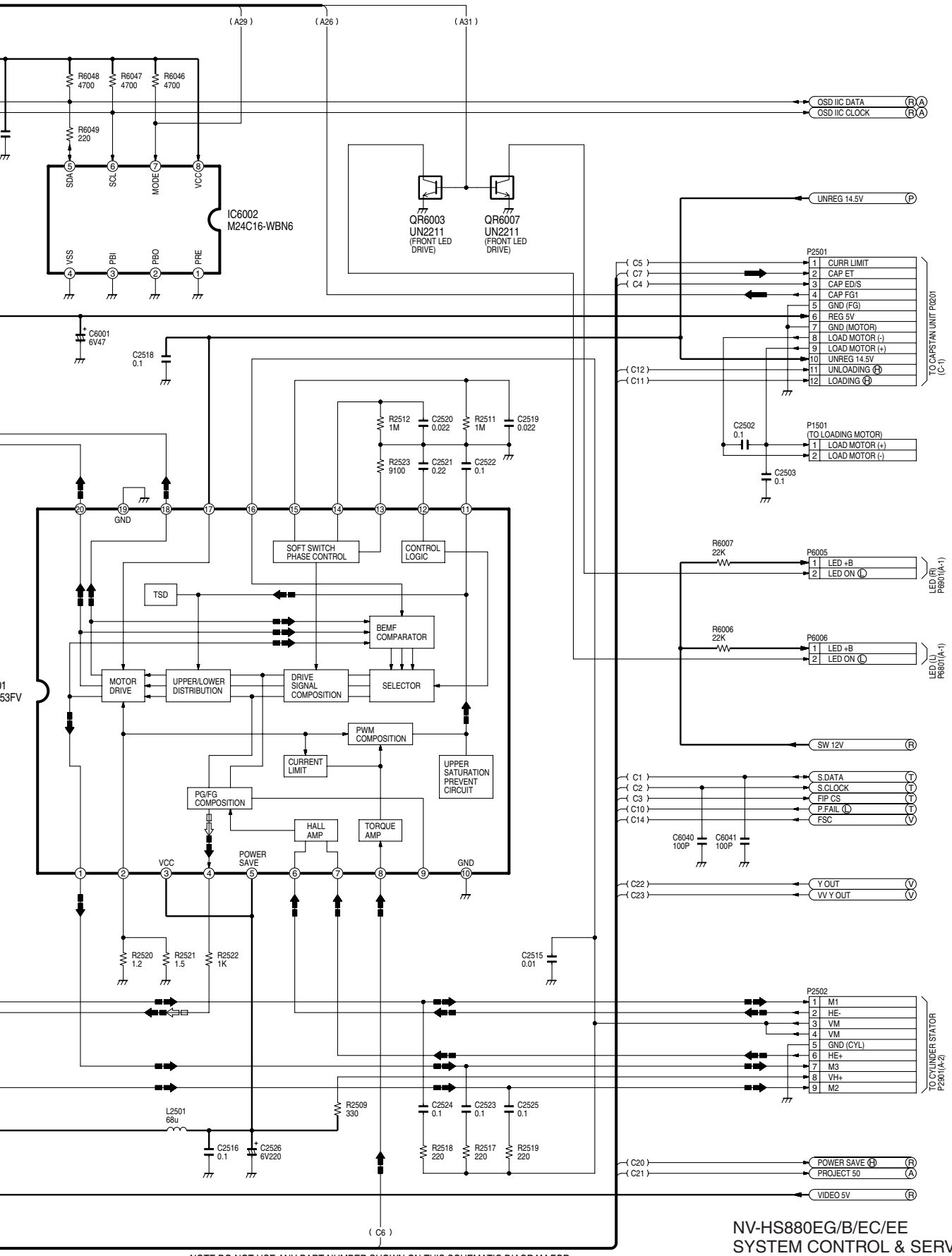
NV-HS880EG/B/EC/EE SYSTEM CONTROL & SERVO SECTION SCHEMATIC DIAGRAM

6 | 7 | 8 | 9 | 10 | 11 | 12



NV-HS880EG/B/EC/EE SYSTEM CONTROL & SERVO SECTION SCHEMATIC DIAGRAM

12	13	14	15	16	17

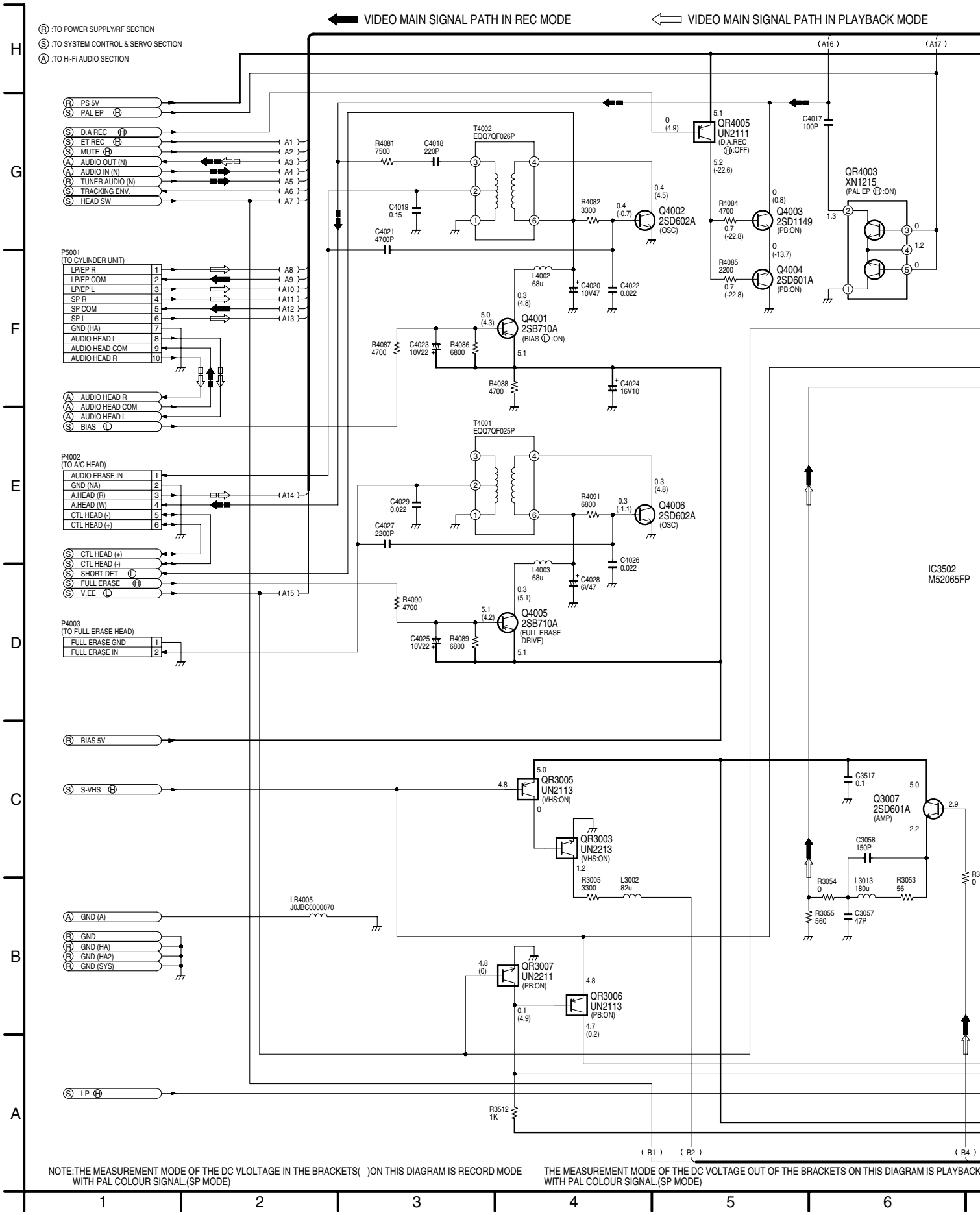


NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
SYSTEM CONTROL & SERVO
SECTION SCHEMATIC DIAGRAM

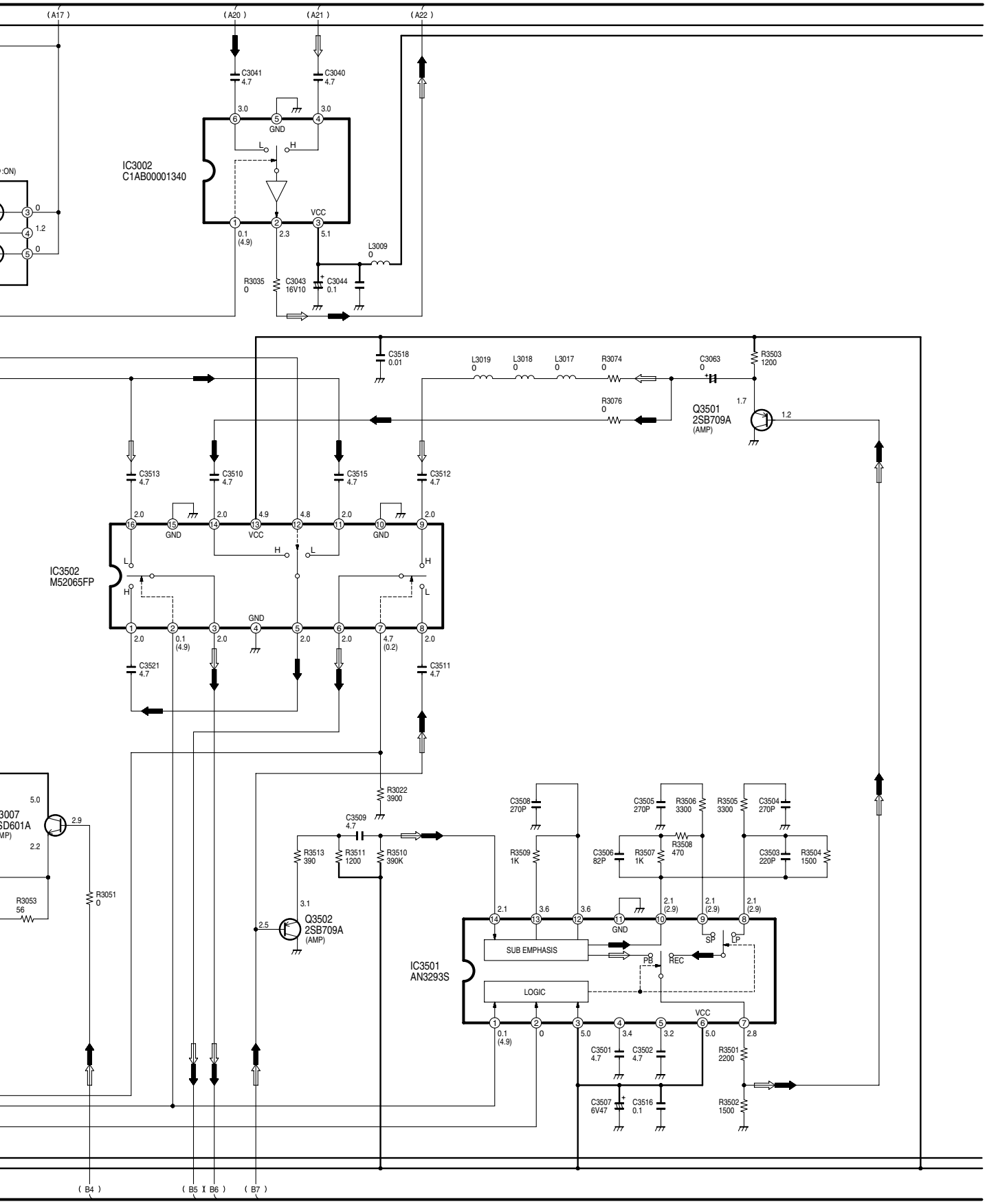
18 19 20 21 22

8.5. LUMINANCE & CHROMINANCE/ AUDIO SECTION IN MAIN SCHEMATIC DIAGR



C DIAGRAM

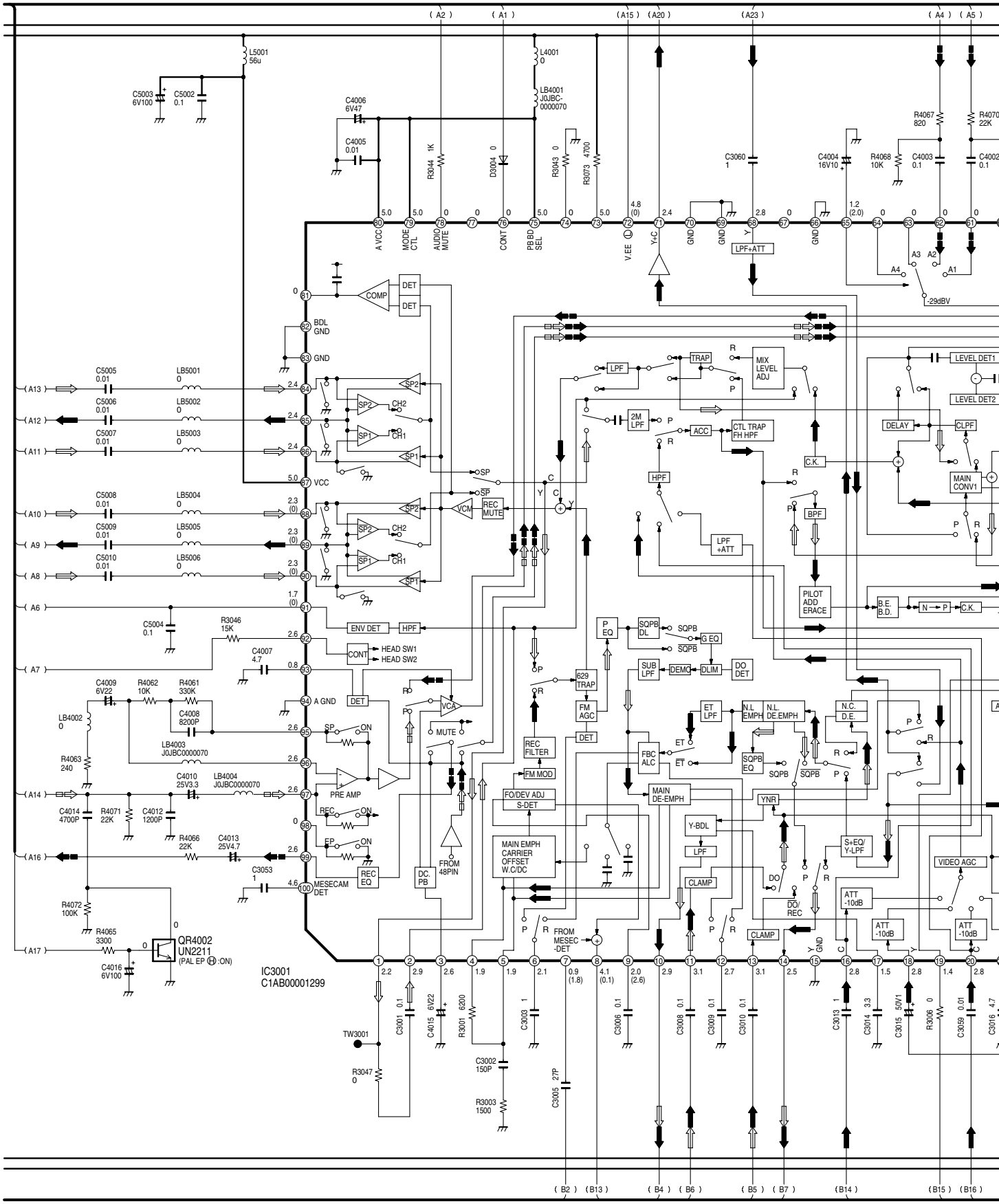
CK MODE ◀■■ AUDIO MAIN SIGNAL PATH IN REC MODE ◁□□ AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

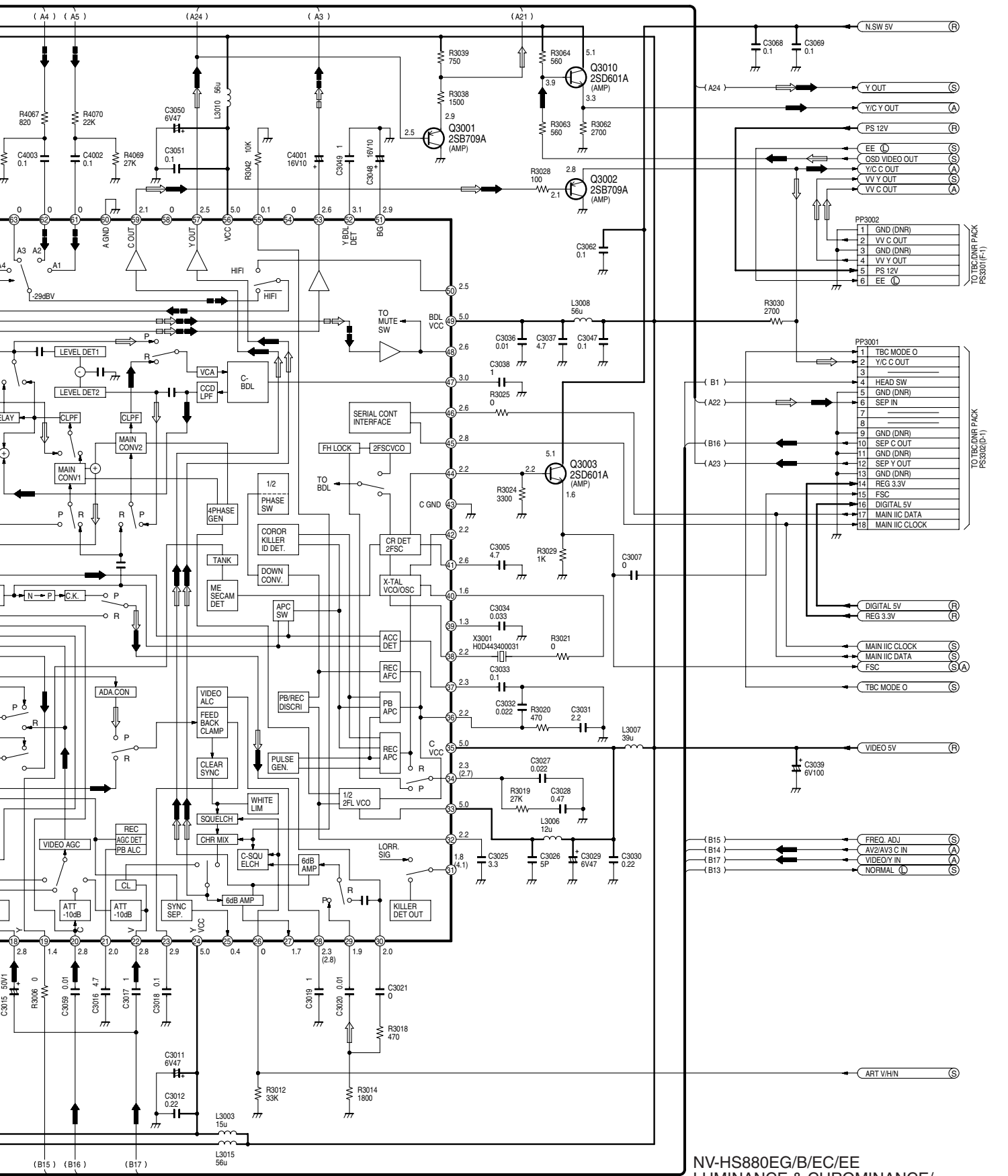


S DIAGRAM IS PLAYBACK MODE

NV-HS880EG/B/EC/EE LUMINANCE & CHROMINANCE/AUDIO SECTION SCHEMATIC DIAGRAM

6 | 7 | 8 | 9 | 10 | 11 | 12


IC3001
C1AB00001299
QR4002
UN2211
(PAL EP H :ON)
A VCC
MODE CTL
AUDIO MUTE
CONT
PB.BD SEL
V.EE
Y+C
GND
Y
LPF+ATT
-29dBV
BDL GND
VCC
COMP
DET
ENV DET
HPF
CONT
HEAD SW1
HEAD SW2
A GND
SP
ON
MUTE
PRE AMP
REC
EP
REC EQ
MESECAM DET
FROM 48PIN
DC. PB
VCA
REC MUTE
VCM
CH1
CH2
SP1
SP2
LPF
TRAP
MIX LEVEL ADJ
2M LPF
ACC
CTL TRAP FH HPF
C.K.
LEVEL DET1
LEVEL DET2
DELAY
CLPF
MAIN CONV1
BPF
LPF +ATT
PILOT ADD ERACE
B.E. B.D.
P EQ
SQPB DL
G EQ
SUB LPF
DEMO
DLIM
DO DET
629 TRAP
FM AGC
REC FILTER
FM MOD
FO/DEV ADJ
S-DET
MAIN EMPH CARRIER OFFSET W.C/DC
FBC ALC
ET LPF
N.L. EMPH
N.L. DE.EMPH
N.C. D.E.
SQPB EQ
MAIN DE-EMPH
YNR
Y-BDL
S+EQ/ Y-LPF
VIDEO AGC
CLAMP
DO/ REC
ATT -10dB
FROM MESEC -DET
TW3001
R3047 0
C3002 150P
R3003 1500
C3005 27P
R3001 6200
C4015 6V22
C3001 0.1
C3003 1
C3006 0.1
C3008 0.1
C3009 0.1
C3010 0.1
C3013 1
C3014 3.3
C3015 50V1
R3006 0
C3059 0.01
C3016 4.7
L5001 56u
L4001 0
LB4001 J0JBC-0000070
C5003 6V100
C5002 0.1
C4006 6V47
C4005 0.01
R3044 1K
D3004 0
R3043 0
R3073 4700
C3060 1
C4004 16V10
R4067 820
R4068 10K
C4003 0.1
R4070 22K
C4002 0.1
C5005 0.01
C5006 0.01
C5007 0.01
C5008 0.01
C5009 0.01
C5010 0.01
LB5001 0
LB5002 0
LB5003 0
LB5004 0
LB5005 0
LB5006 0
C5004 0.1
R3046 15K
C4007 4.7
C4009 6V22
R4062 10K
R4061 330K
C4008 8200P
LB4002 0
LB4003 J0JBC0000070
R4063 240
C4010 25V3.3
LB4004 J0JBC0000070
C4014 4700P
R4071 22K
C4012 1200P
R4066 22K
C4013 25V4.7
C3053 1
R4072 100K
R4065 3300
C4016 6V100
(A2) (A1) (A15) (A20) (A23) (A4) (A5)
(A13) (A12) (A11) (A10) (A9) (A8) (A6) (A7) (A14) (A16) (A17)
(B2) (B13) (B4) (B6) (B5) (B7) (B14) (B15) (B16)

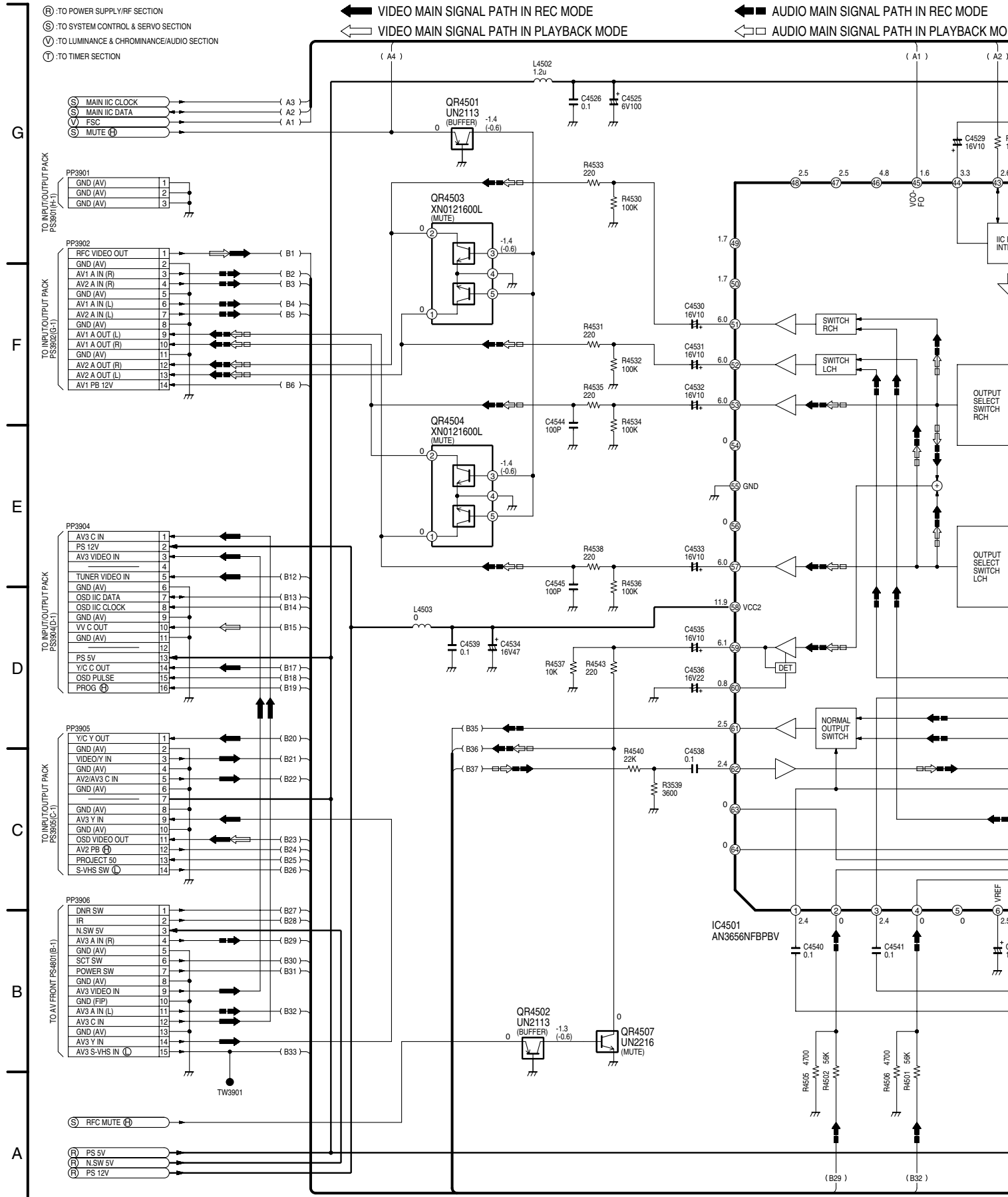


NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
LUMINANCE & CHROMINANCE/
AUDIO SECTION SCHEMATIC DIAGRAM

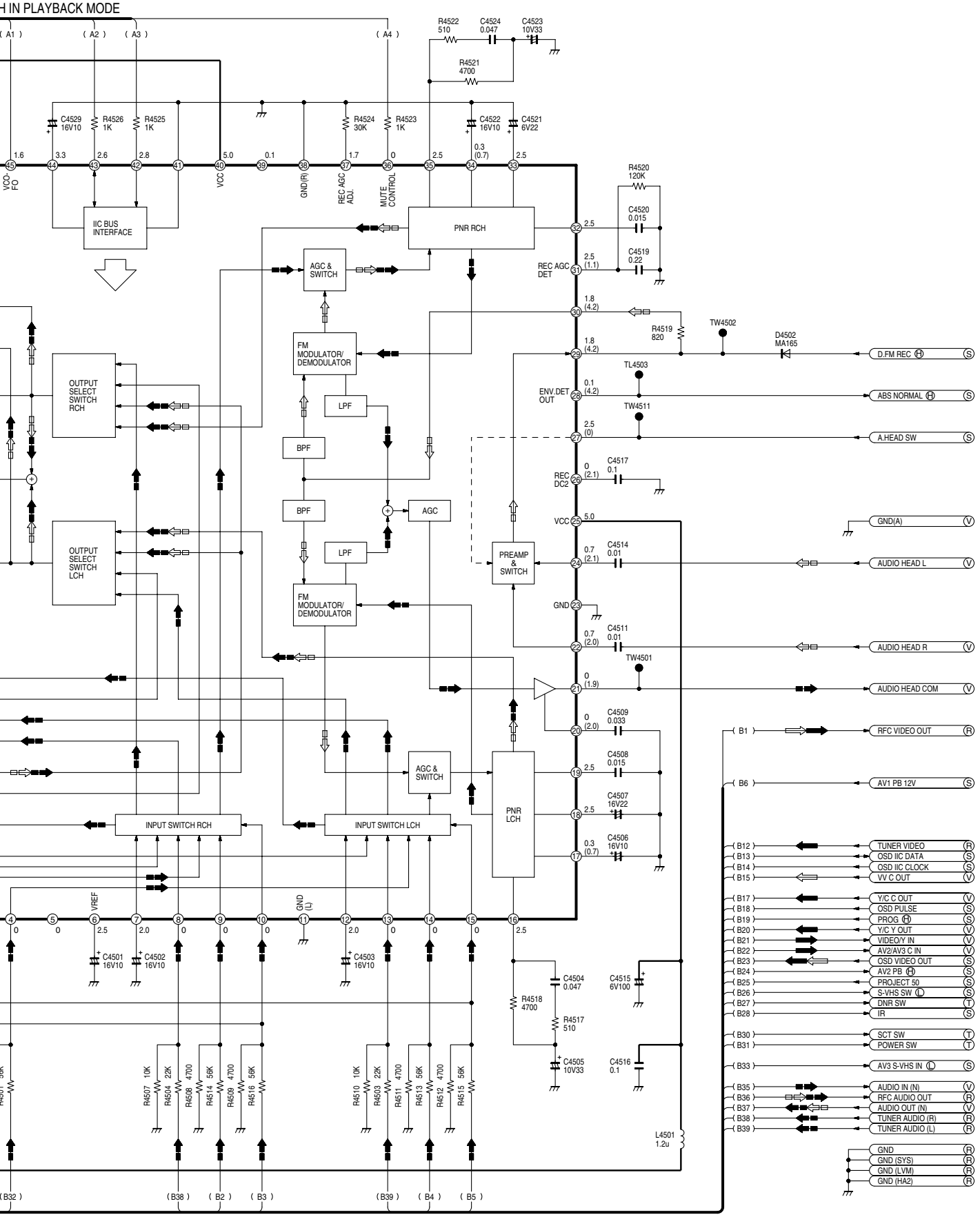
18	19	20	21	22	23

8.6. Hi-Fi AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM



H IN REC MODE

H IN PLAYBACK MODE



S ON THIS DIAGRAM IS PLAYBACK MODE

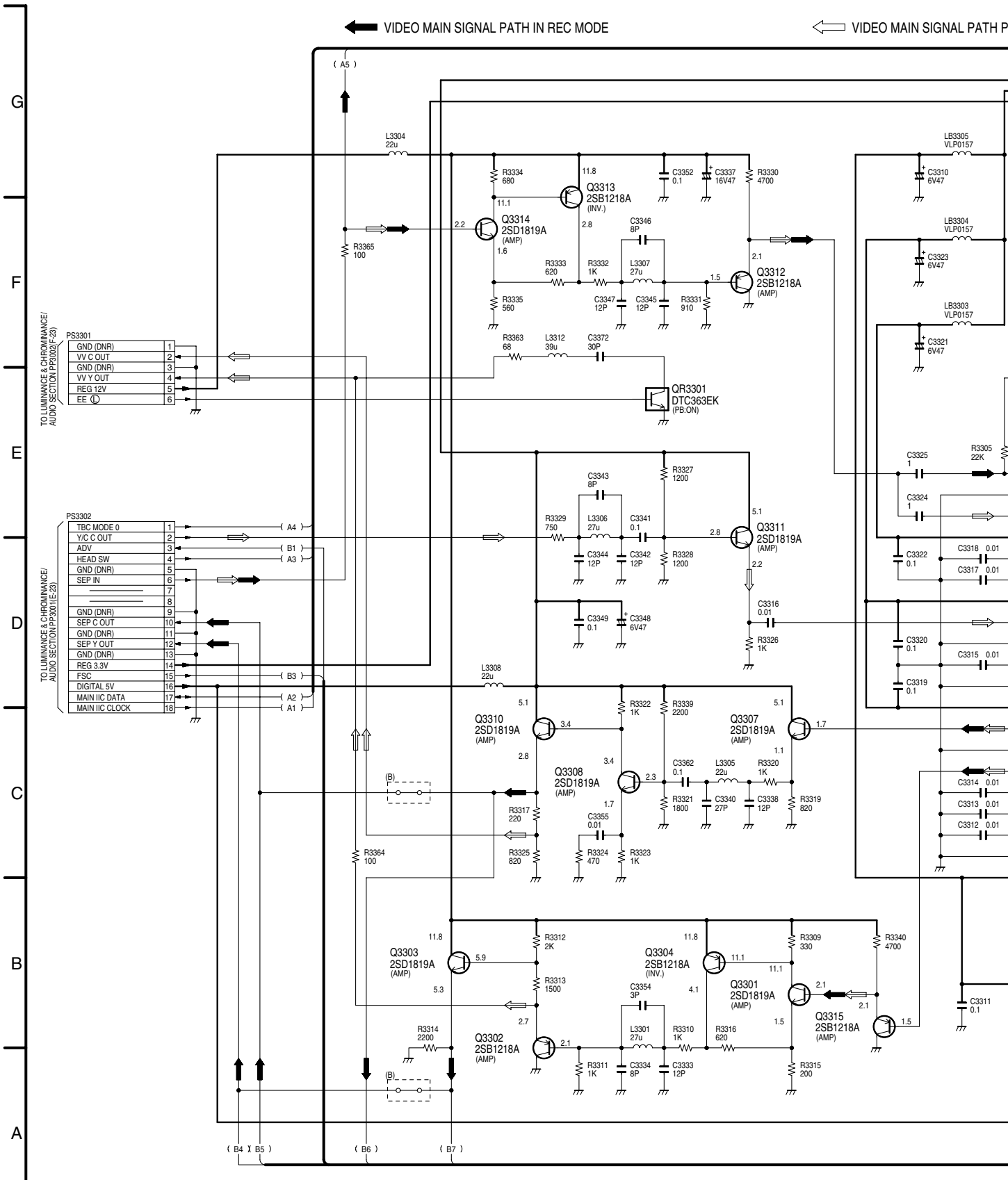
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE

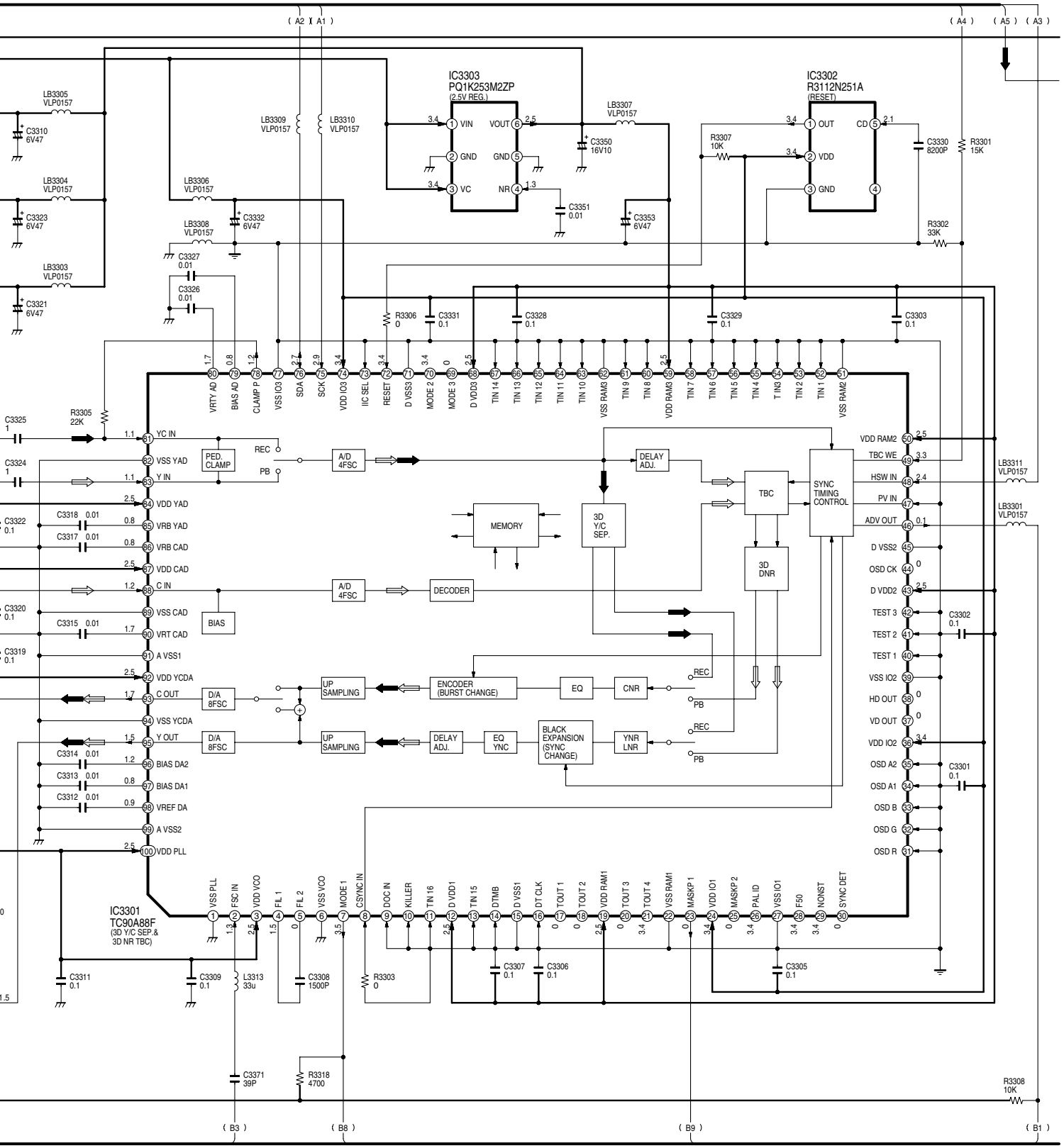
Hi-Fi AUDIO SECTION SCHEMATIC DIAGRAM

6 | 7 | 8 | 9 | 10 | 11

8.7. TBC/DNR PACK SCHEMATIC DIAGRAM



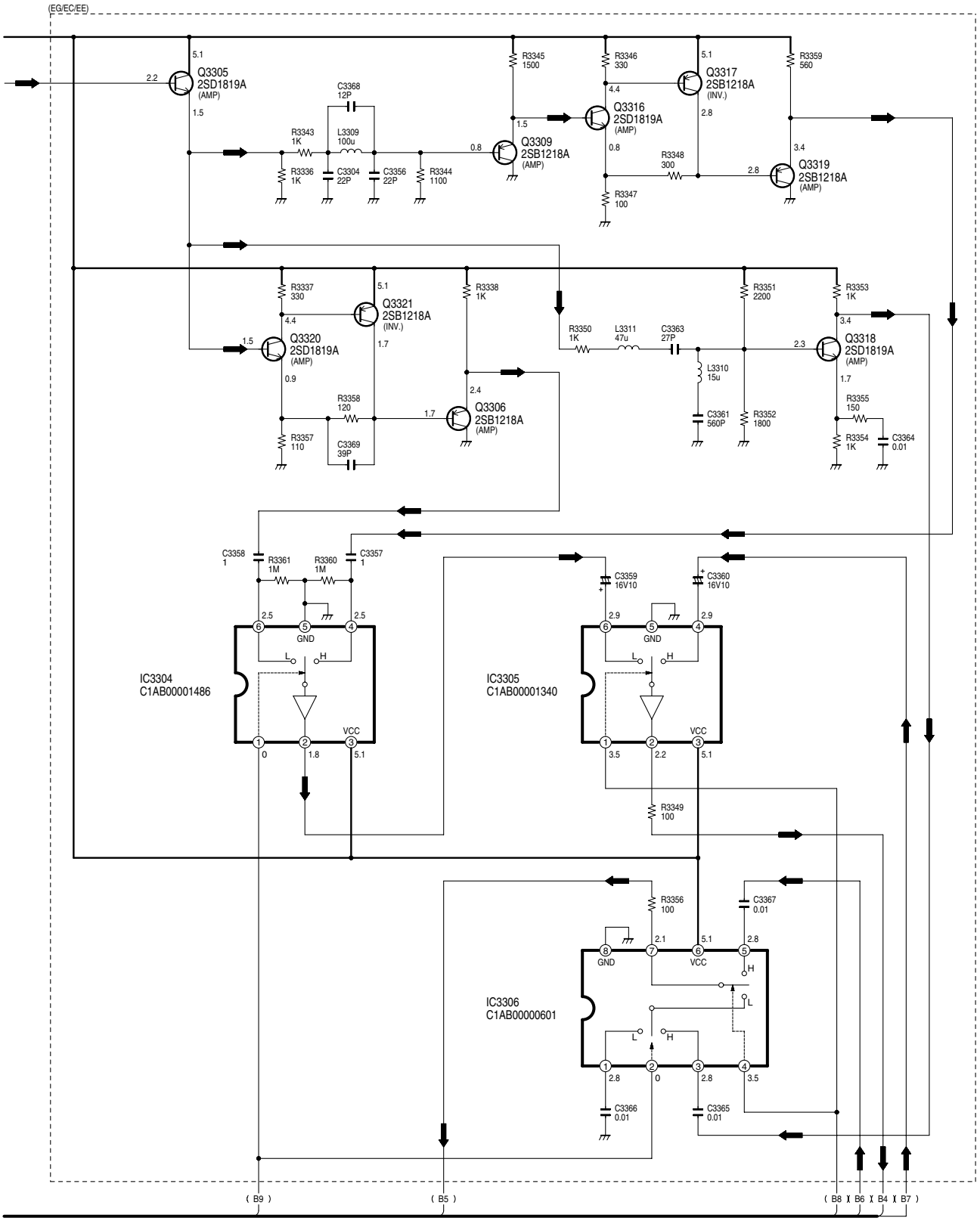
AIN SIGNAL PATH PLAYBACK MODE



BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE

NV-HS880EG/B/EC/EE
TBC/DNR PACK SCHEMATIC DIAGRAM

6	7	8	9	10	11

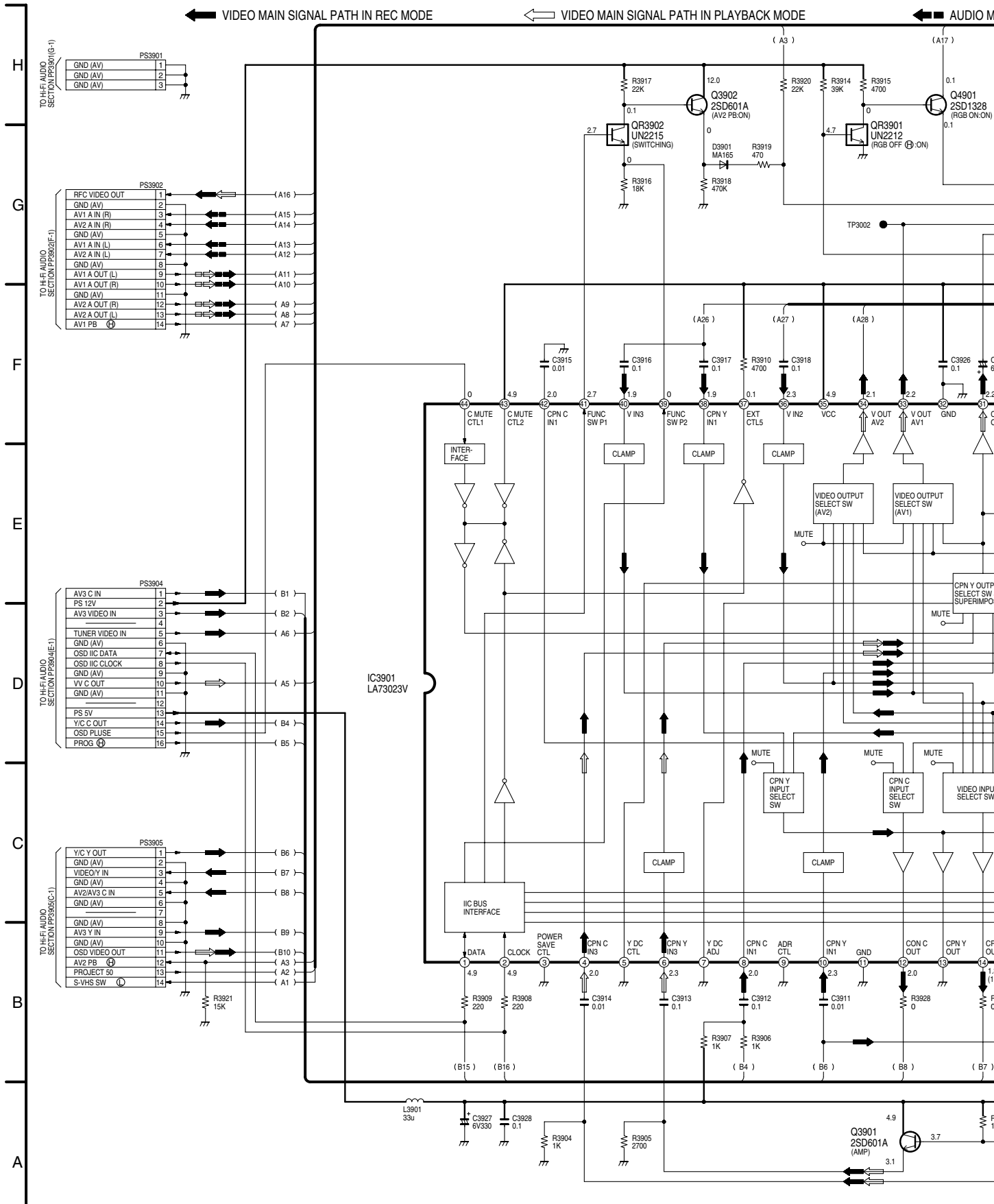


NV-HS880EG/B/EC/EE
TBC/DNR PACK SCHEMATIC DIAGRAM

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

12	13	14	15	16	17

8.8. INPUT/ OUTPUT PACK SCHEMATIC DIAGRAM



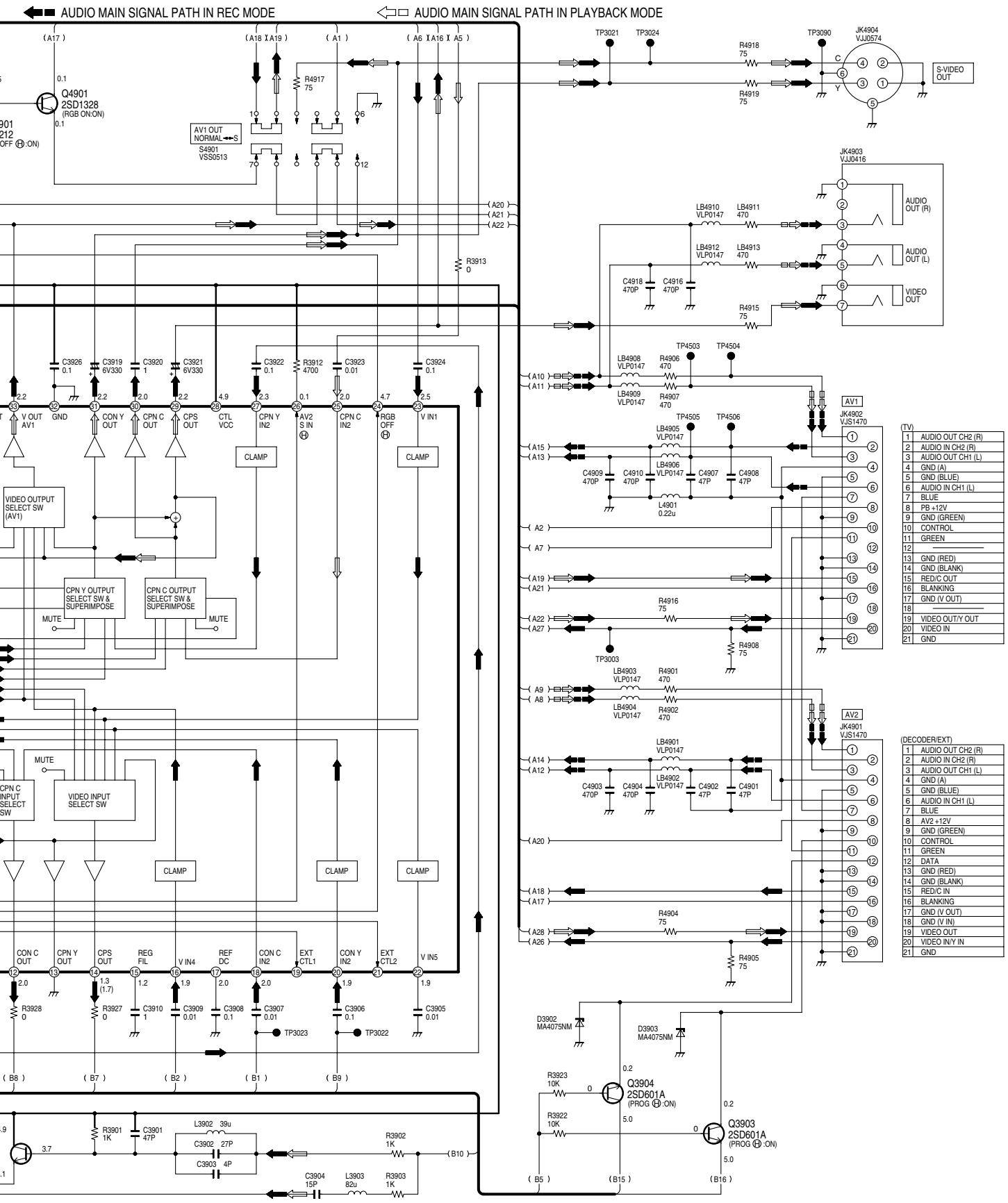


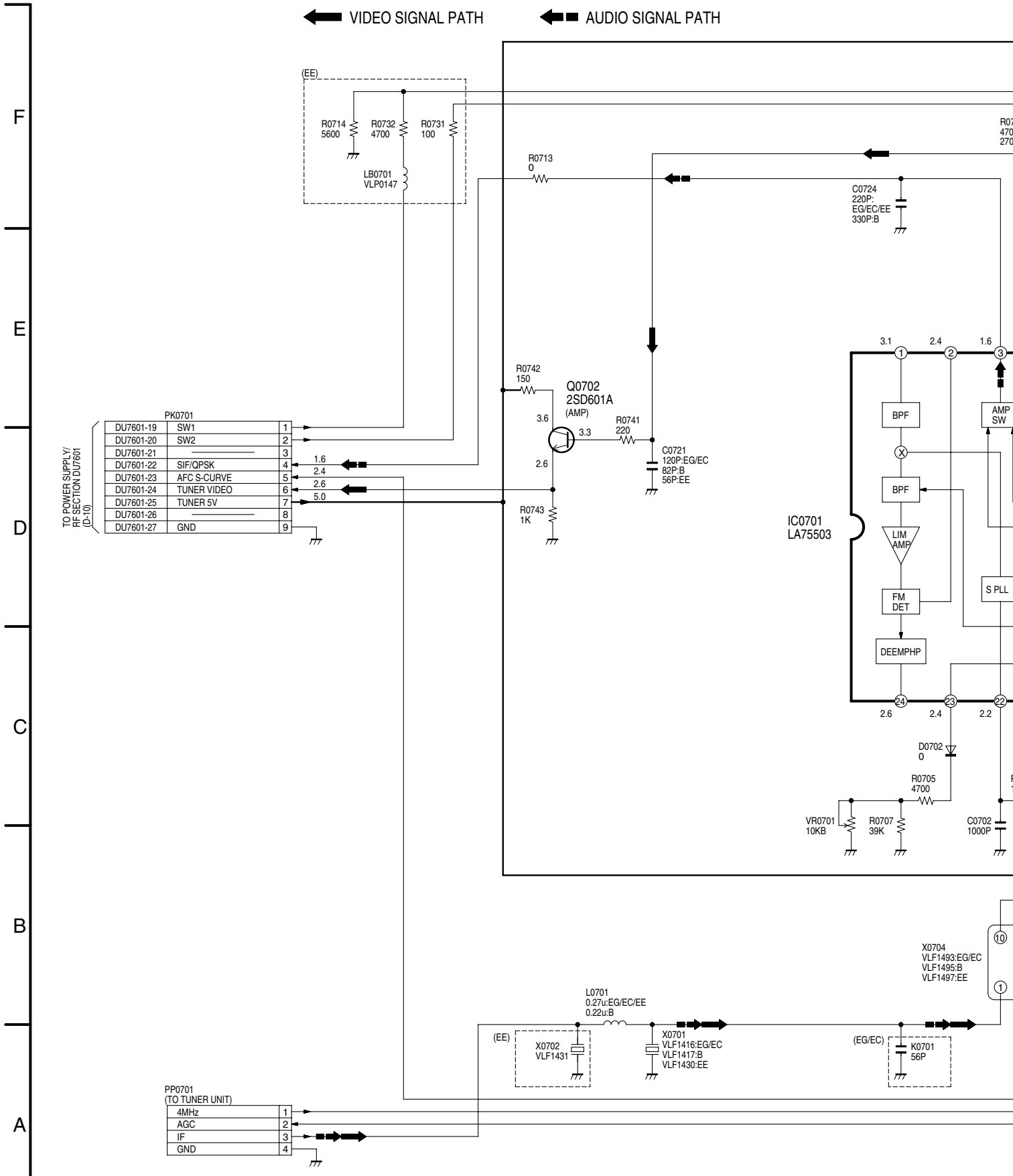
DIAGRAM IS PLAYBACK MODE

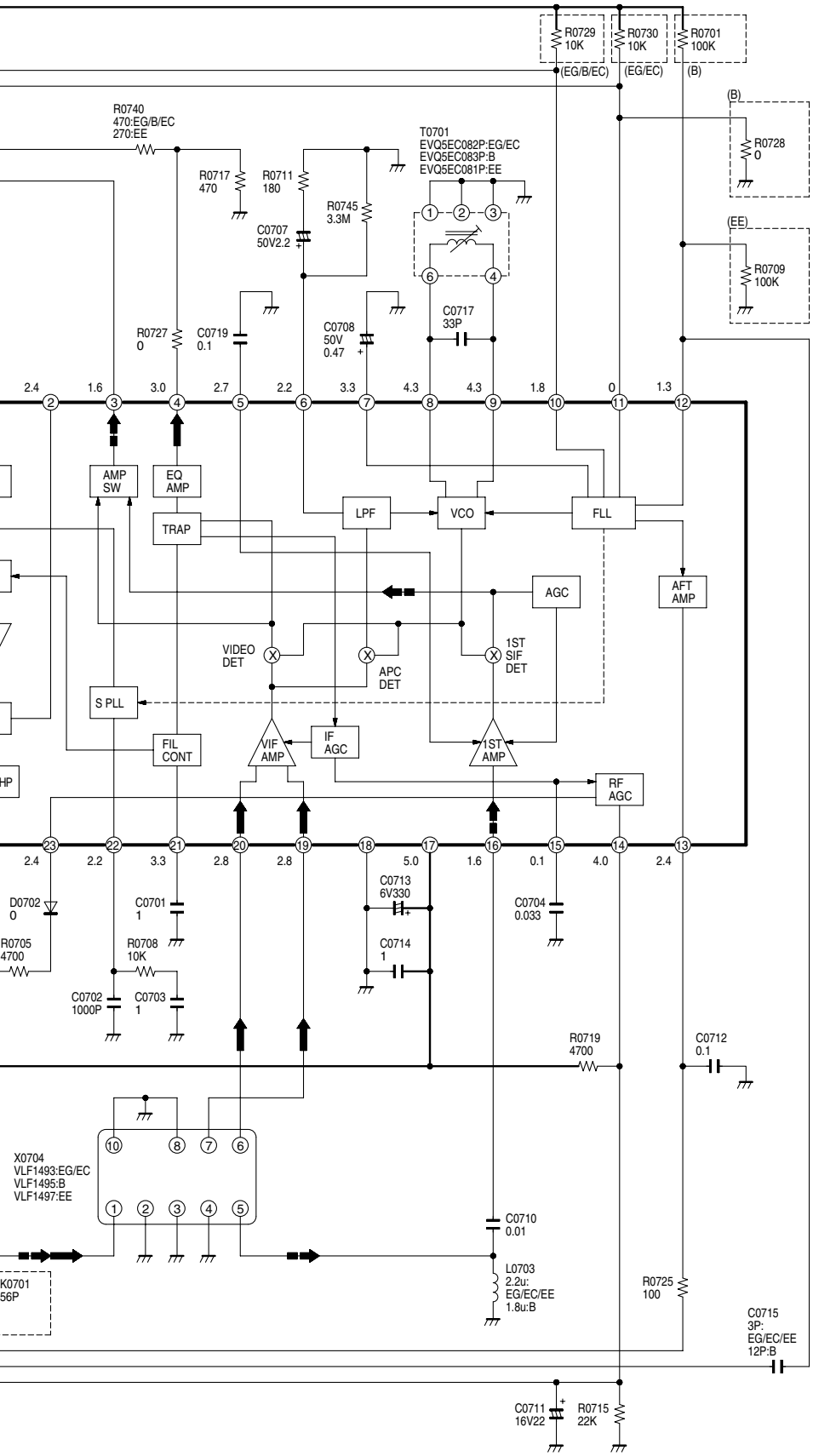
NOTE:DO NOT ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
INPUT/OUTPUT PACK SCHEMATIC DIAGRAM

6 | 7 | 8 | 9 | 10 | 11 | 12

8.9. TV DEMODULATOR PACK SCHEMATIC DIAGRAM



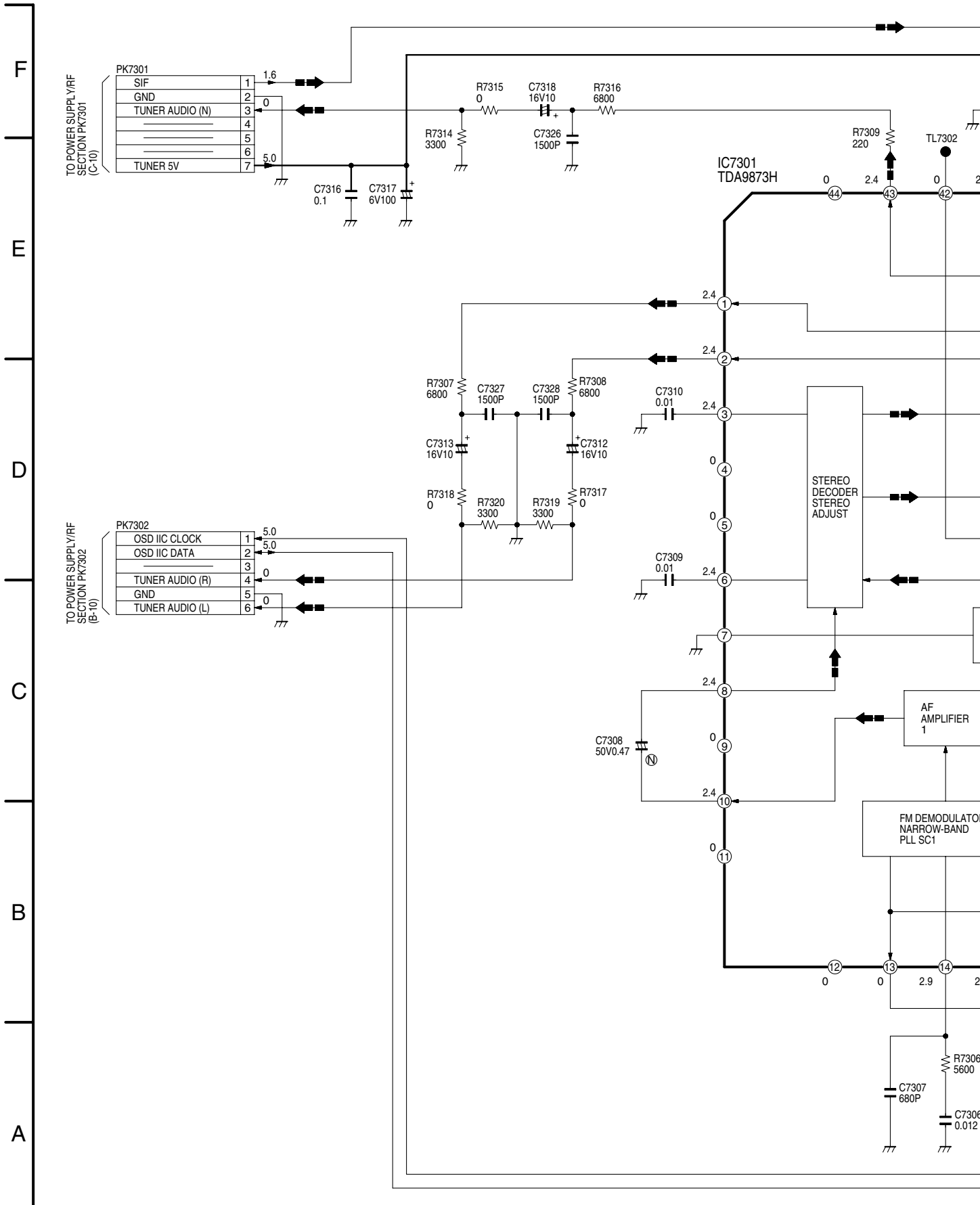


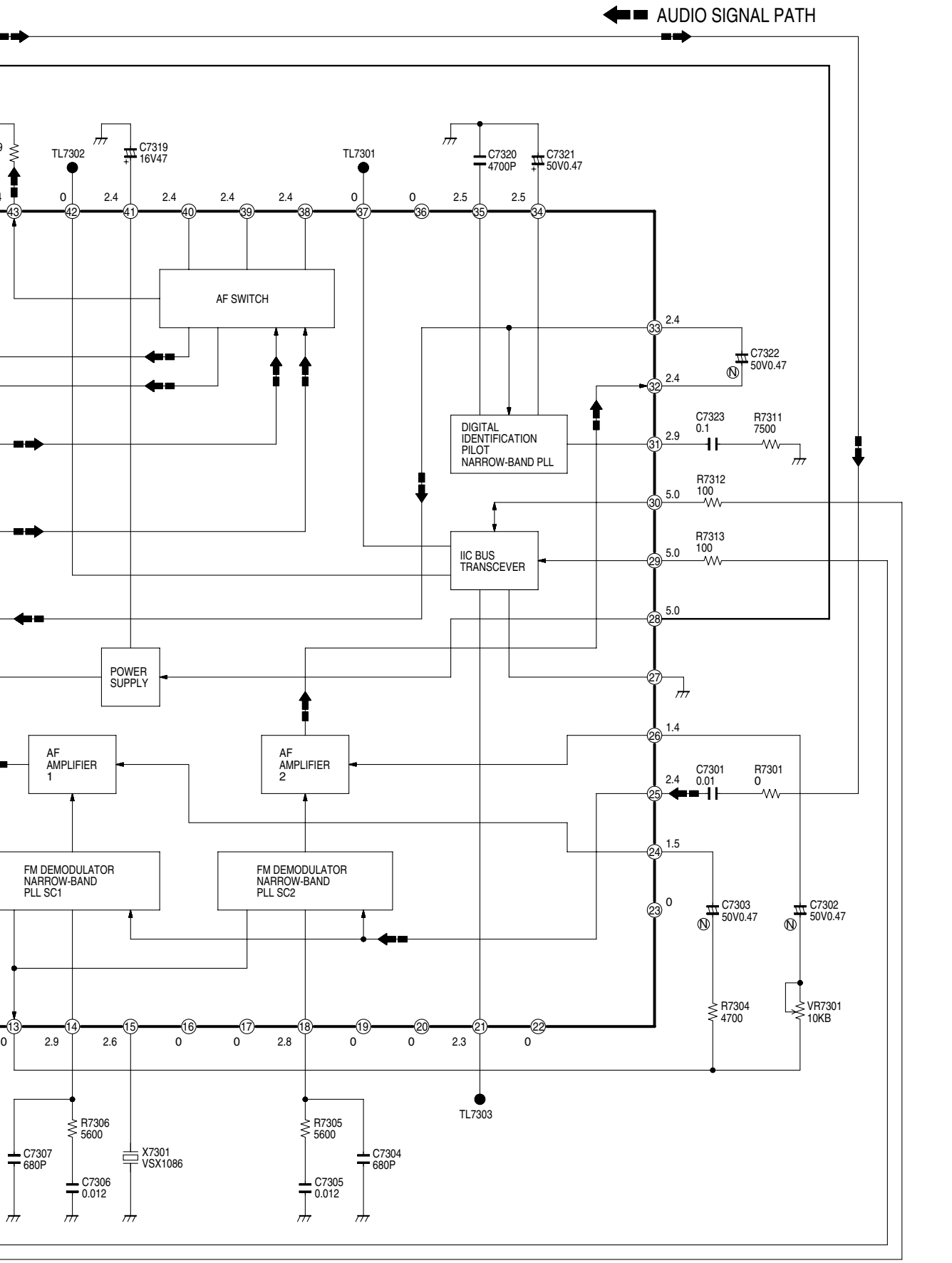
BER SHOWN ON THIS SCHEMATIC DIAGRAM FOR
R A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
TV DEMODULATOR PACK SCHEMATIC DIAGRAM

5	6	7	8

8.10. DECODER PACK SCHEMATIC DIAGRAM (NV-HS880EG)



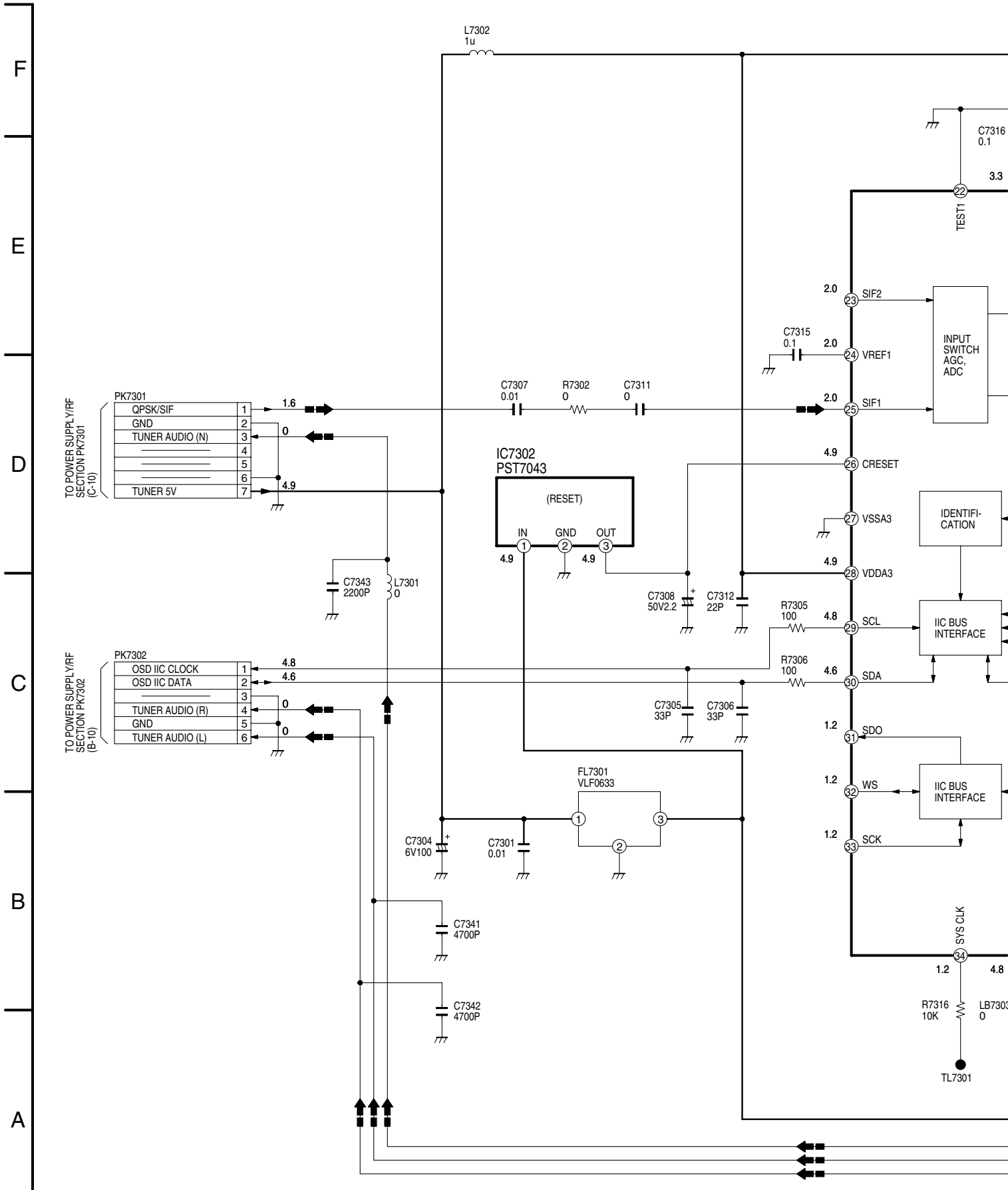


E: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG
DECODER PACK SCHEMATIC DIAGRAM

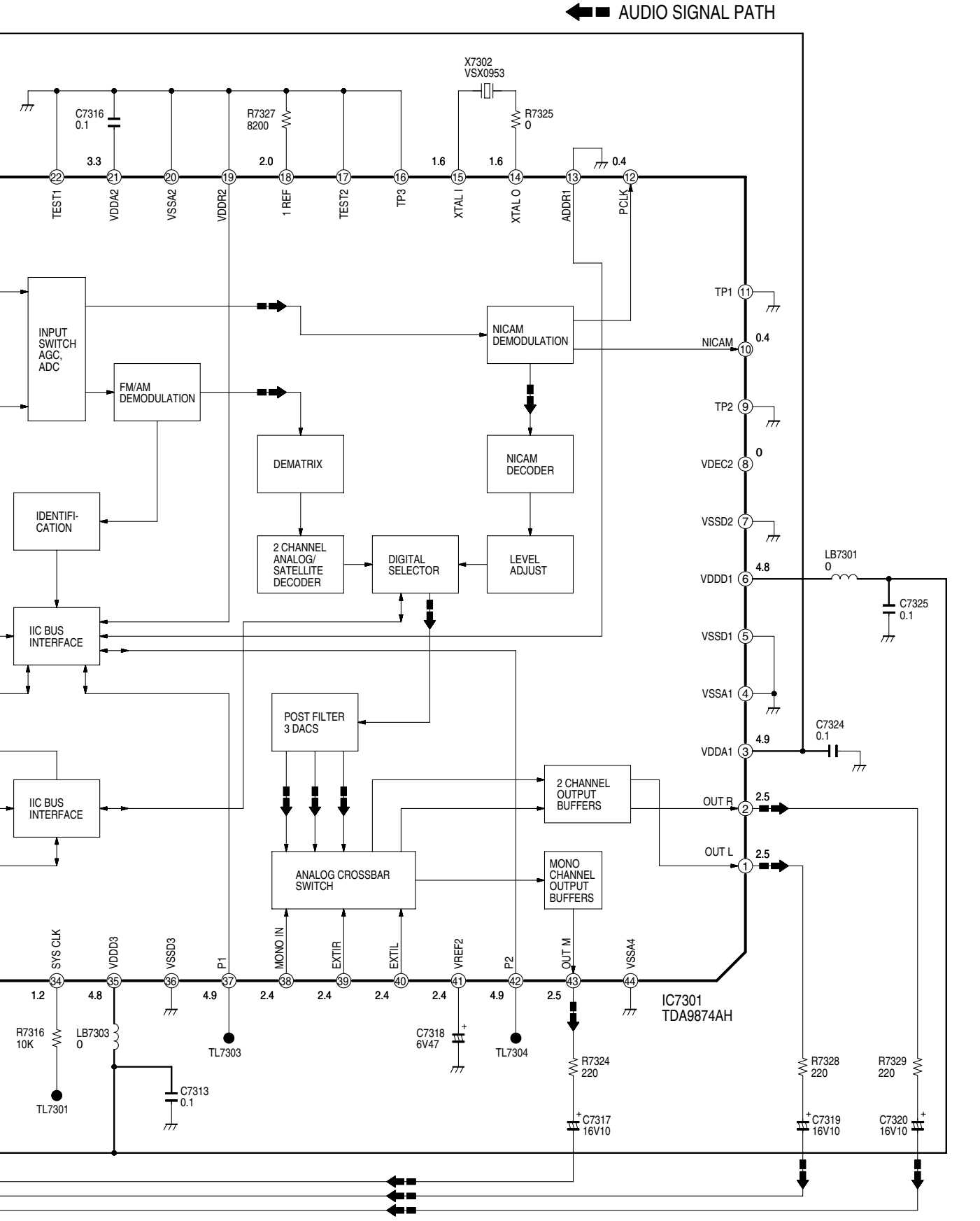
5 | 6 | 7 | 8

8.11. NICAM DECODER PACK SCHEMATIC DIAGRAM (NV-HS880B/EC/EE)



NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART
ORDERING. WHEN YOU

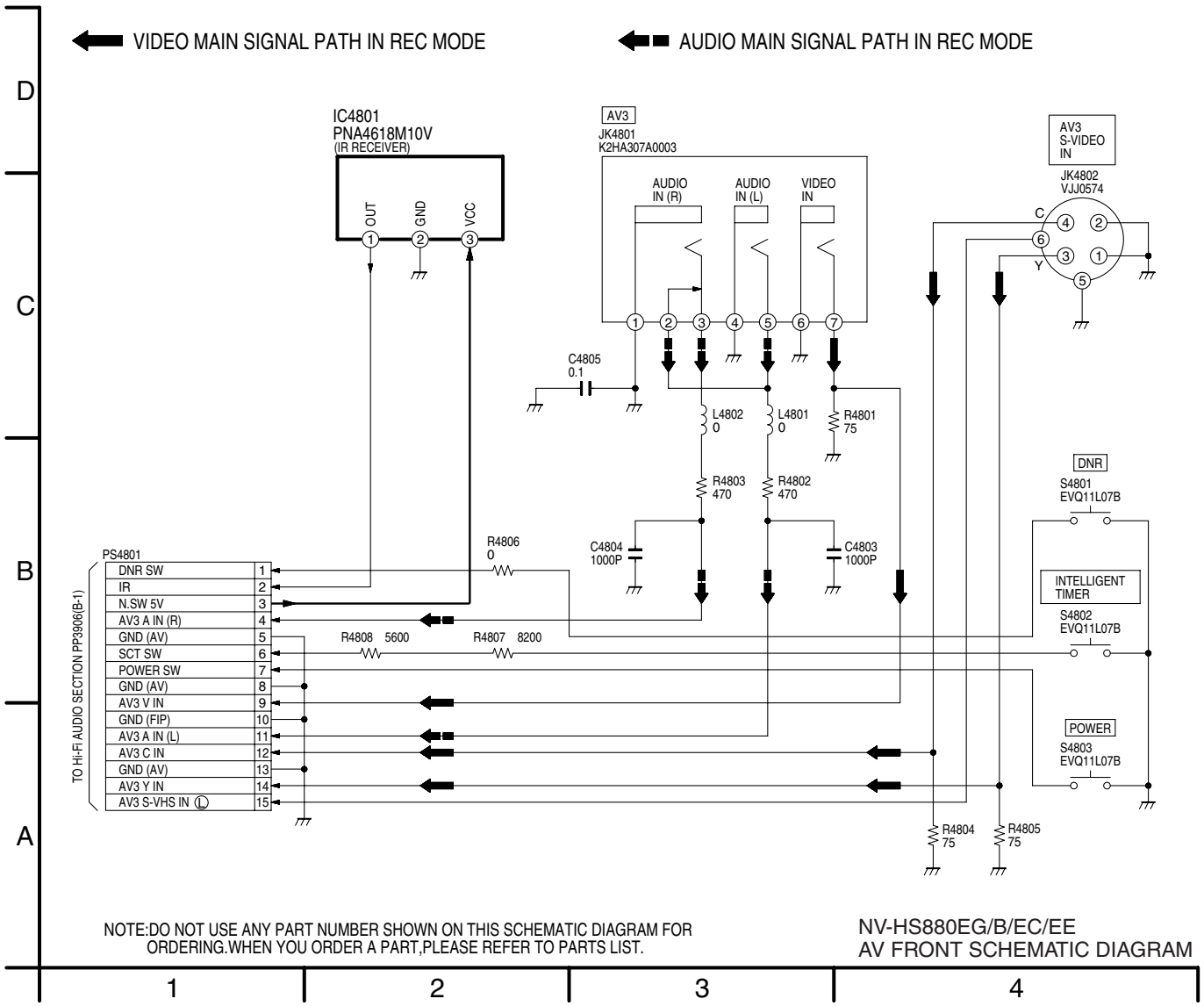


OT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR RING. WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880B/EC/EE
NICAM DECODER PACK SCHEMATIC DIAGRAM

5	6	7	8

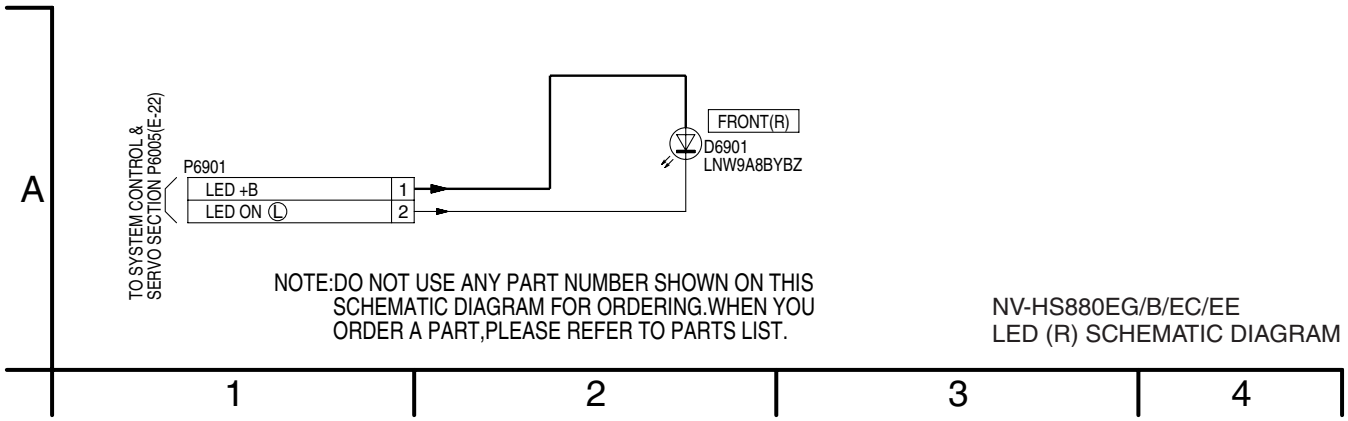
8.12. AV FRONT SCHEMATIC DIAGRAM



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
AV FRONT SCHEMATIC DIAGRAM

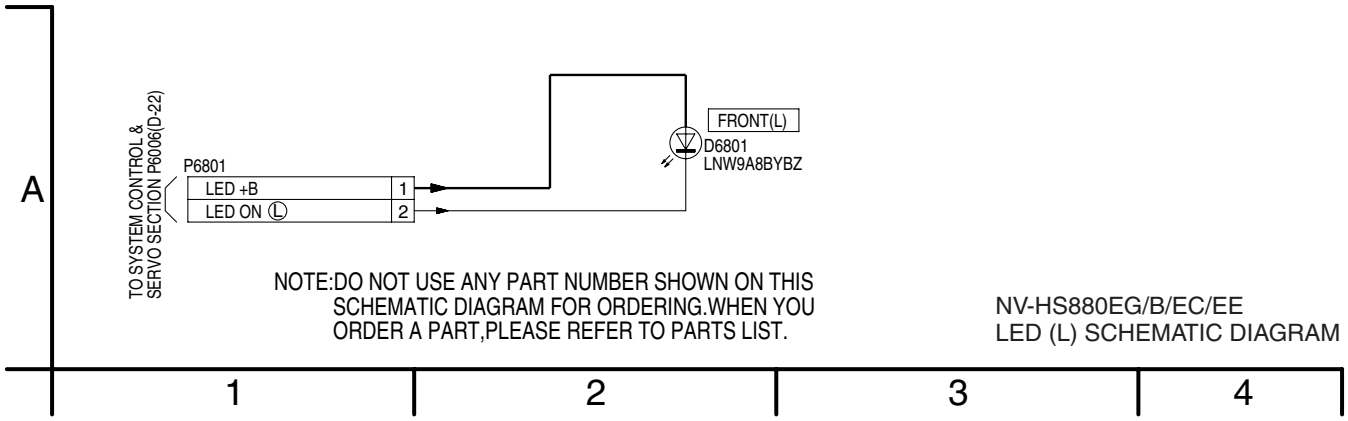
8.13. LED (R) SCHEMATIC DIAGRAM



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
LED (R) SCHEMATIC DIAGRAM

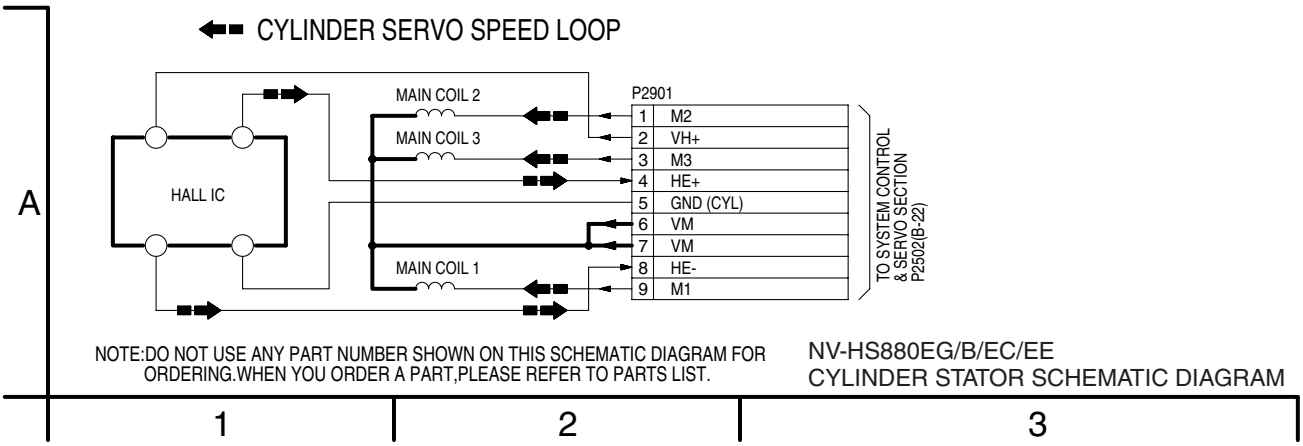
8.14. LED (L) SCHEMATIC DIAGRAM



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
LED (L) SCHEMATIC DIAGRAM

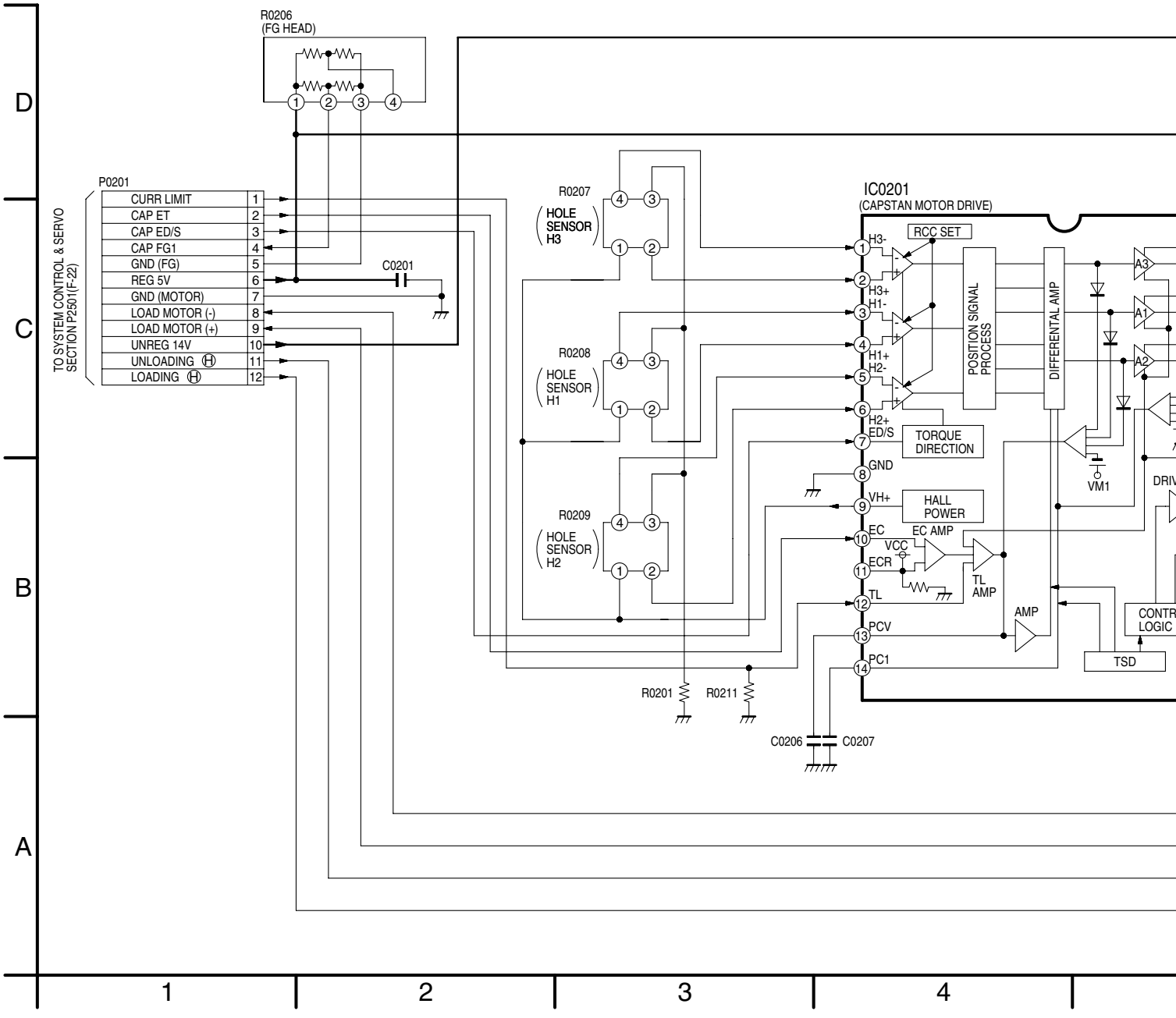
8.15. CYLINDER STATOR UNIT SCHEMATIC DIAGRAM

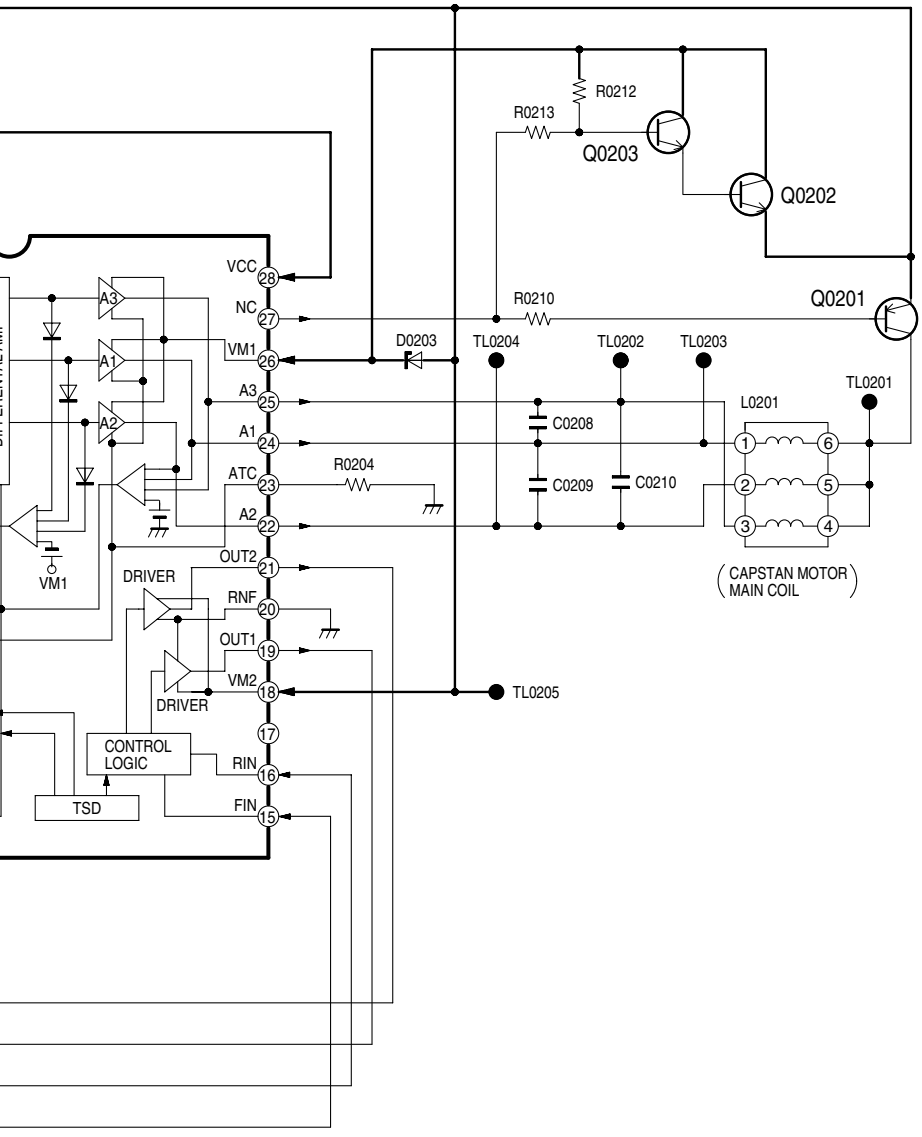


NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
CYLINDER STATOR SCHEMATIC DIAGRAM

8.16. CAPSTAN UNIT SCHEMATIC DIAGRAM





NV-HS880EG/B/EC/EE
CAPSTAN UNIT SCHEMATIC DIAGRAM

5 6 7

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE

IC4501

JK4801 (AV3) FRONT
AUDIO IN (R)
AUDIO IN (L)
PS4801 PP3906 4
PS4801 PP3906 11
2
4

JK4902 (AV1) TV
1 AUDIO OUT (R)
2 AUDIO IN (R)
3 AUDIO OUT (L)
6 AUDIO IN (L)
TP4504
TP4503
TP4506
PS3902 PP3902 10
PS3902 PP3902 9
PS3902 PP3902 3
PS3902 PP3902 4
QR4504 MUTE
QR4504 MUTE
53
57
9
10

JK4903
AUDIO OUT (R)
AUDIO OUT (L)
TP4505
PS3902 PP3902 6
PS3902 PP3902 7
14
15

JK4901 (AV2) DECODER/EXT
1 AUDIO OUT (R)
2 AUDIO IN (R)
3 AUDIO OUT (L)
6 AUDIO IN (L)
PS3902 PP3902 12
PS3902 PP3902 13
QR4503 MUTE
QR4503 MUTE
51
52

SWITCH RCH
SWITCH LCH

TO TUNER
RFC AUDIO OUT
QR4507 MUTE
59

FROM DECODER
TUNER AUDIO (R)
TUNER AUDIO (L)
8
13

IC3001
(B/EC/EE)
(EG)
Q7601 MUTE
FROM DECODER/ TV DEMODU
TUNER AUDIO (N)
61
MUTE
53
62

TO/FROM AC HEAD
A.HEAD (W)
A.HEAD (R)
99
97
REC EQ
MUTE
VCA
R
P
62
61
MUTE CTL
78

NORMAL SELECT SWITCH

OUTPUT SELECT SWITCH RCH
OUTPUT SELECT SWITCH LCH

INPUT SELECT SWITCH RCH
INPUT SELECT SWITCH LCH

PNR RCH
PNR LCH

AGC & SWITCH
AGC
AGC & SWITCH

FM MODULATOR/ DEMODULATOR
FM MODULATOR/ DEMODULATOR

LPF
LPF
BPF
BPF

IIC BUS INTERFACE
42
43
MAIN IIC CLOCK
MAIN IIC DATA
TO/FROM SYSTEM CONTROL

VCO F0
45
FSC
FROM LUMINANCE & CHROMINANCE

27
AUDIO H.SW
FROM SYSTEM CONTROL

30
D.FM REC Ⓛ
FROM SYSTEM CONTROL

PREAMP & SWITCH
29

24
21
22
P5001 8
P5001 9
P5001 10
L
R
Hi-Fi AUDIO HEAD

MUTE CTL
36
MUTE Ⓛ
FROM SYSTEM CONTROL

NV-HS880EG/B/EC/EE
AUDIO BLOCK DIAGRAM

CAPSTAN MOTOR L0201

TL0201

IC0201 (CAPSTAN MOTOR DRIVE)

MOTOR DRIVE

DIFFERENTIAL AMPRIFIER

TORQUE CONTROL

TL AMP

EC AMP

POSITION SIGNAL PROCESS

TORQUE DIRECTION

CONTROL LOGIC

H3

H1

H2

LOADING MOTOR

P1501 1

P1501 2

P2501 P0201 9

P2501 P0201 8

INPUT		OUTPUT		MODE
PIN 15	PIN 16	PIN 19	PIN 21	
H	L	H	L	FORWARD
L	H	L	H	REWIND
H	H	L	L	BRAKE
L	L	OPEN	OPEN	STOP

R0206 CAPSTAN FG HEAD

CAP FG5V

P0201 P2501 4

TW2015

TL2503

TL2502

IC6001 (SYSTEM CONTROL/SERVO IC)

P0201 P2501 1 — CURRENT LIMIT

P0201 P2501 2 — CAPSTAN ERROR TORQUE

P0201 P2501 3 — CAPSTAN REVERSE/ FORWARD

UNREG 14.5V

HALF WAVE (H)

P0201 P2501 12 — LOADING (H)

P0201 P2501 11 — UNLOADING (H)

CAPSTAN FG IN

CAPSTAN FG OUT

TW2002

CTL OUT

EX.FF/REW (L)

TW6002

125Hz

S1501 MODE SW

POSITION SW2

POSITION SW3

POSITION SW1

20MHz IN

20MHz OUT

X6002

32KHz IN

32KHz OUT

X6001

FIP (L)

BACK UP 5V

P.FAIL (L)

IR

RESET (L)

LED ON (H)

S.DATA IN

S.DATA OUT

S.CLOCK

FIP CS

IC7504

RESET

N.SW 5V

C7507

N.SW 5V

IC4801

IR RECEIVER

PP3906 PS4801 2

N.SW 5V

IC7503

RESET

IC7501

DP7501

TIMER DISPLAY

F+ F+ F- F-

Q1001

BUFFER

FROM POWER

HEATER(+)

HEATER(-)

UNREG -29V

QR1002

QR1003

SEG1

SEG18

GRID1

GRID7

VEE

FRONT(R) D6901

P6005 P6901 2

LED +B

QR6007

FRONT(L) D6801

P6006 P6801 2

LED +B

QR6003

SERIAL DATA

SERIAL CLOCK

CS

INTELLIGENT TIMER S4802

A.DUB S7509

PP3906 PS4801 6

EJECT S7505

EXT LINK S7510

N.SW 5V

A2

N.SW 5V

POWER S4803

FF S7514

T.REC S7513

STOP S7515

REC S7501

CH DOWN S7502

N.SW 5V

POWER KEY

PP3906 PS4801 7

A5

DNR S4801

REW S7512

PLAY S7511

PAUSE S7503

CH UP S7504

N.SW 5V

PP3906 PS4801 1

A4

CYLINDER STATOR UNIT

P2901

6,7	VM	P2501-3,4	
1	M2	P2501-9	MAIN COIL 2
9	M1	P2501-1	MAIN COIL 1
3	M3	P2501-7	MAIN COIL 3
5	GND	P2501-5	
8	HE-	P2501-2	
4	HE+	P2501-6	HALL IC
2	VH+	P2501-8	

REG 5V

IC2501 (CYLINDER MOTOR DRIVE)

COM

MOTOR DRIVE

PG/FG

CYL PFG

DIFFERENTIAL AMPLIFIER

UNREG 14.5V

SCHMIT

TORQUE CONTROL

CYLINDER ERROR TORQUE

N.SW 5V

TAKE-UP PHOTO

SUPPLY PHOTO

SAFETY TAB (L)

REG 5V

IC1501 (T-REEL SENSOR)

IC1502 (S-REEL SENSOR)

REG 5V

TL6013

TL6012

S-REEL PULSE

T-REEL PULSE

Q1501 TAKE UP PHOTO SENSOR

D1501 SENSOR LED

Q1502 SUPPLY PHOTO SENSOR

S7507 SAFETY TAB SW

CTL HEAD

P4002 5

P4002 6

CTL HEAD(-)

CTL HEAD(+)

NV-HS880EG/B/EC/EE
SYSTEM CONTROL & SERVO BLOCK DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

IC3901
(INPUT/OUTPUT SELECT)

TO/FROM SYSTEM CONTROL
OSD IIC DATA
OSD IIC CLOCK
PP3904 | PS3904 7
PP3904 | PS3904 8
1 DATA
2 CLOCK
IIC BUS INTERFACE

JK4904
S-VIDEO OUT
4 REAR C OUT
3 REAR Y OUT
TP3024
TP3021

JK4902
AV1(TV)
19 VIDEO/Y OUT
15 C OUT
20 VIDEO IN
S4901
NORMAL ↔ S-VHS

JK4903
VIDEO OUT
REAR VIDEO OUT

JK4901
AV2
(DECODER)
19 VIDEO OUT
15 C IN
20 VIDEO/Y IN

TUNER/
TV DEMODULATOR
6 RFC VIDEO OUT
24 TUNER VIDEO
PP3902 | PS3902 1
PP3904 | PS3904 5

JK4801
AV3
VIDEO IN
FRONT VIDEO IN
PS4801 | PP3906 9

JK4802
AV3
S-VIDEO IN
4 FRONT C IN
3 FRONT Y IN
PS4801 | PP3906 12
PS4801 | PP3906 14

TP3003
TP3002

31 CON Y OUT
29 CPS OUT
30 CPN C OUT
36 V IN2
33 V OUT AV1
34 V OUT AV2
38 CPN Y IN1
40 V IN3
23 V IN1
CLAMP

25 CPN C IN2
27 CPN Y IN2
10 CPN Y IN1
8 CPN C IN1
4 CPN C IN3
6 CPN Y IN3
20 CON Y IN2
18 CON C IN2
16 V IN4
14 CPS OUT
12 CON C OUT

L3903
C3904
B.P.F
Q3901
BUFFER
L3902
C3901
C3902
C3903
L.P.F.

TP3022
TP3023

PS3904 | PP3904 10
PS3905 | PP3905 1
PS3904 | PP3904 14
PS3905 | PP3905 11
PS3905 | PP3905 3
PS3905 | PP3905 5
PP3904 | PS3904 3
PP3904 | PS3904 1
PP3905 | PS3905 9

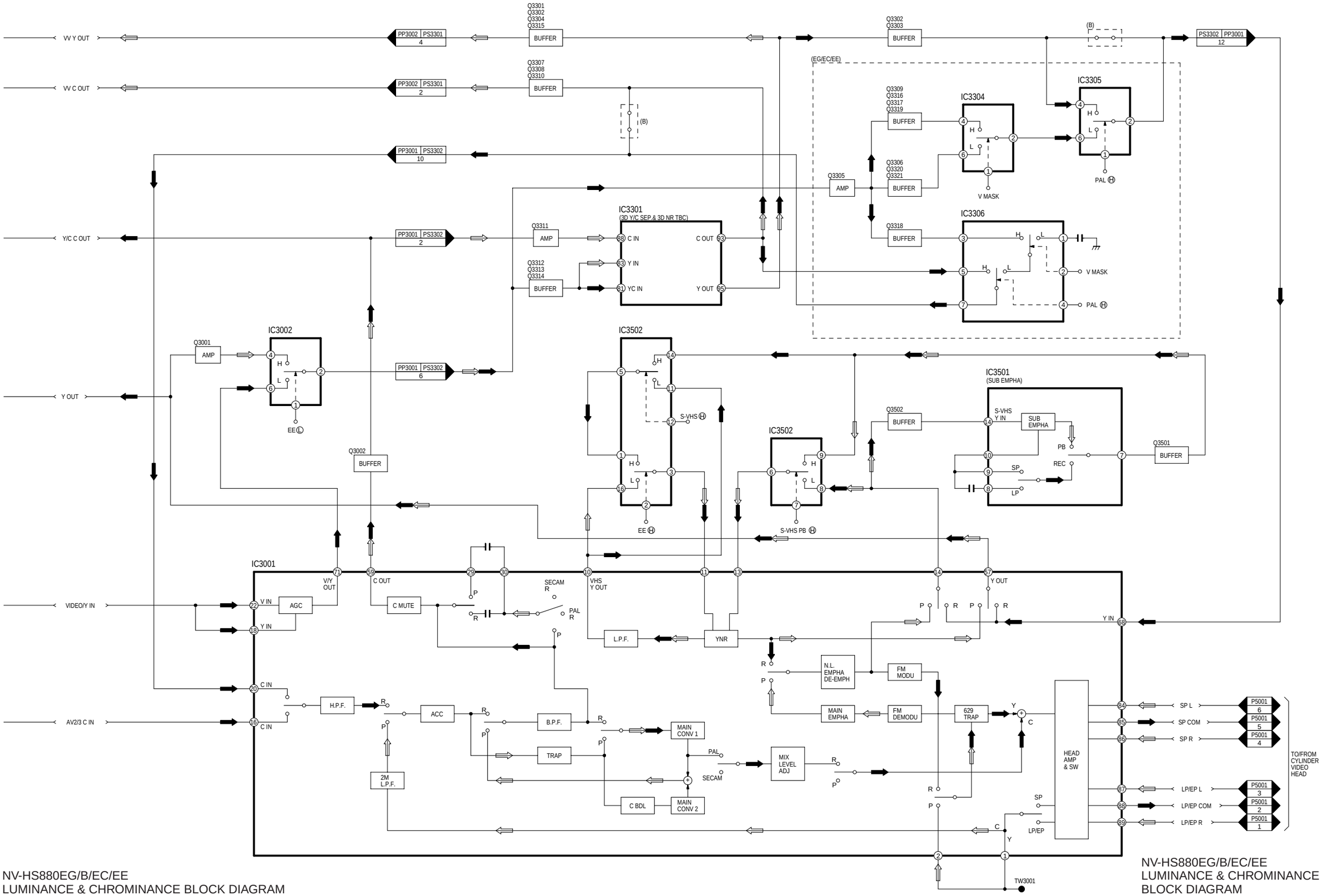
Q3010
AMP

IC6004
4 H
2
L
6
1
EE

IC6003
(OSD u-COM SLICER)
VCBS 17
Q6001
Q6004
AMP

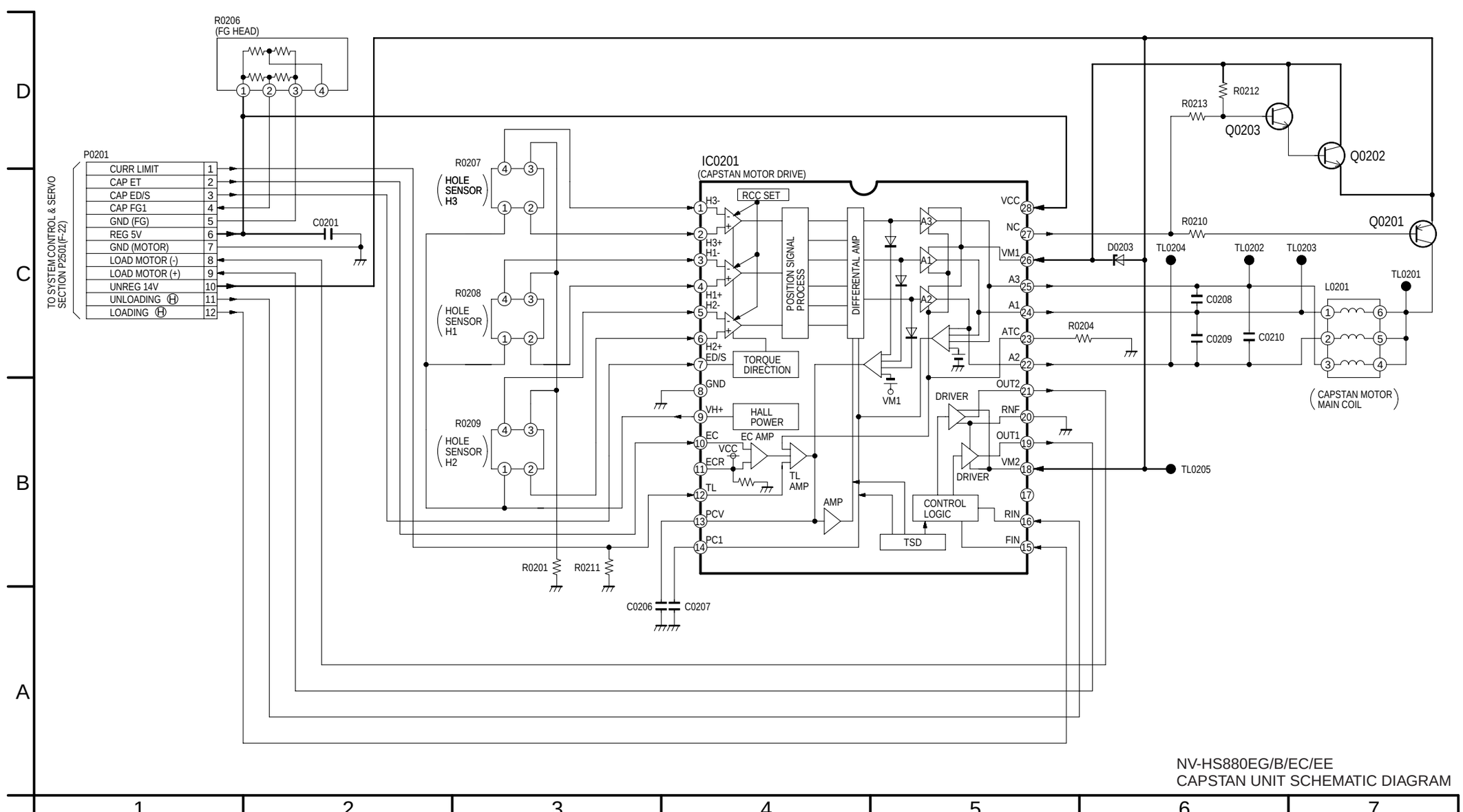
IC6001
Q6002
AMP
61 OSD SIGNAL PROCESS 56
SCL 4 99 OSD IIC CLOCK
SDA 5 100 OSD IIC DATA

NV-HS880EG/B/EC/EE
LUMINANCE & CHROMINANCE BLOCK DIAGRAM

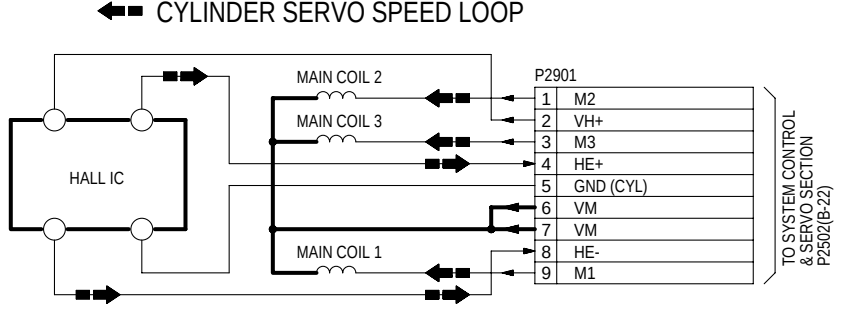


NV-HS880EG/B/EC/EE
LUMINANCE & CHROMINANCE BLOCK DIAGRAM

NV-HS880EG/B/EC/EE
LUMINANCE & CHROMINANCE
BLOCK DIAGRAM



NV-HS880EG/B/EC/EE
CAPSTAN UNIT SCHEMATIC DIAGRAM

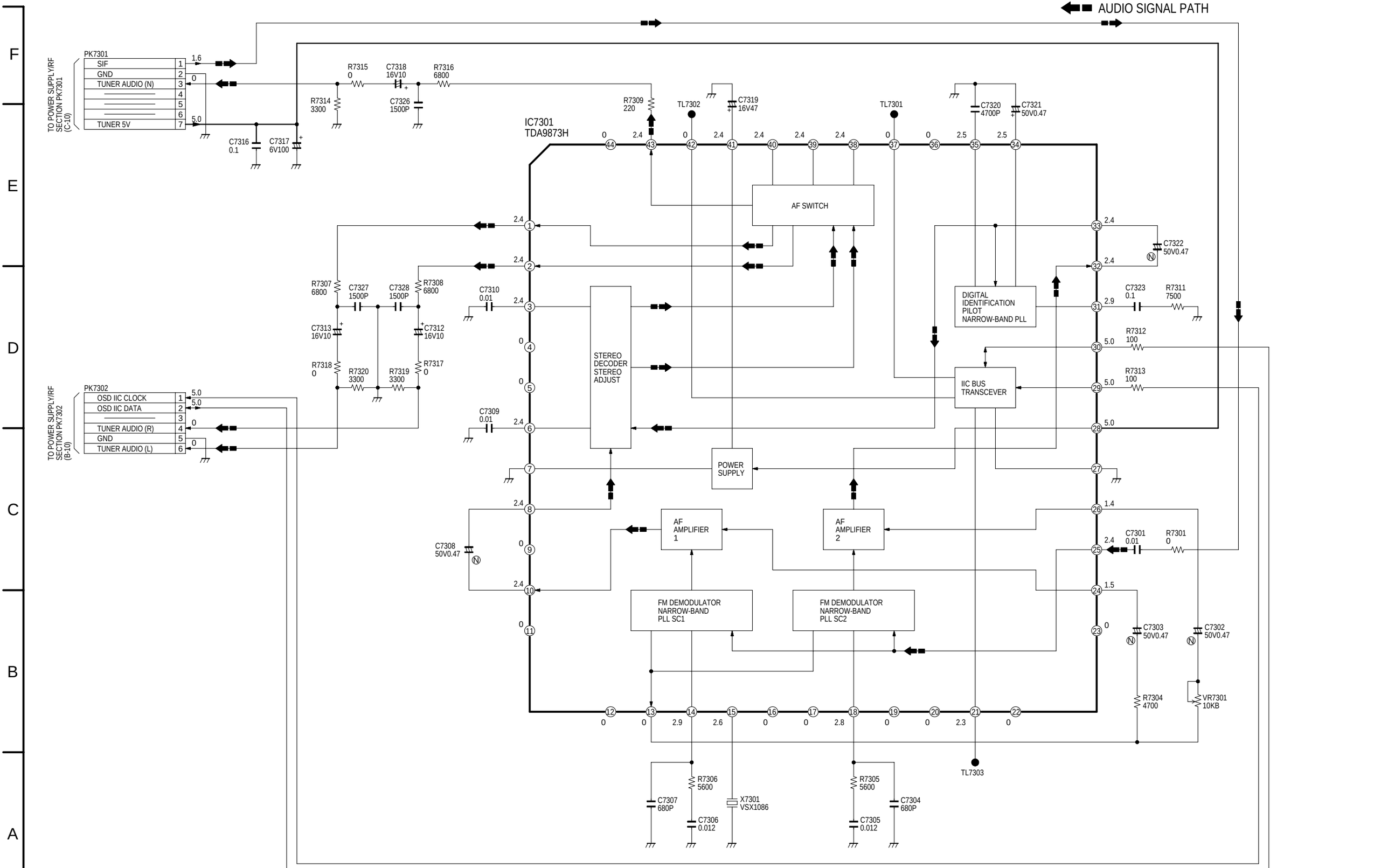


NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
CYLINDER STATOR SCHEMATIC DIAGRAM

A

1 2 3



NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG
DECODER PACK SCHEMATIC DIAGRAM

Ⓡ :TO POWER SUPPLY/RF SECTION
Ⓢ :TO SYSTEM CONTROL & SERVO SECTION
Ⓥ :TO LUMINANCE & CHROMINANCE/AUDIO SECTION
Ⓣ :TO TIMER SECTION

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

TO INPUT/OUTPUT PACK PS:3901(H-1)
PP3901: GND (AV) 1, GND (AV) 2, GND (AV) 3

TO INPUT/OUTPUT PACK PS:3902(G-1)
PP3902: RFC VIDEO OUT 1, GND (AV) 2, AV1 A IN (R) 3, AV2 A IN (R) 4, GND (AV) 5, AV1 A IN (L) 6, AV2 A IN (L) 7, GND (AV) 8, AV1 A OUT (L) 9, AV1 A OUT (R) 10, GND (AV) 11, AV2 A OUT (R) 12, AV2 A OUT (L) 13, AV1 PB 12V 14

TO INPUT/OUTPUT PACK PS:3904(D-1)
PP3904: AV3 C IN 1, PS 12V 2, AV3 VIDEO IN 3, 4, TUNER VIDEO IN 5, GND (AV) 6, OSD IIC DATA 7, OSD IIC CLOCK 8, GND (AV) 9, VV C OUT 10, GND (AV) 11, 12, PS 5V 13, Y/C C OUT 14, OSD PULSE 15, PROG Ⓗ 16

TO INPUT/OUTPUT PACK PS:3905(C-1)
PP3905: Y/C Y OUT 1, GND (AV) 2, VIDEO/Y IN 3, GND (AV) 4, AV2/AV3 C IN 5, GND (AV) 6, 7, GND (AV) 8, AV3 Y IN 9, GND (AV) 10, OSD VIDEO OUT 11, AV2 PB Ⓗ 12, PROJECT 50 13, S-VHS SW Ⓛ 14

TO AV FRONT PS:4801(B-1)
PP3906: DNR SW 1, IR 2, N.SW 5V 3, AV3 A IN (R) 4, GND (AV) 5, SCT SW 6, POWER SW 7, GND (AV) 8, AV3 VIDEO IN 9, GND (FIP) 10, AV3 A IN (L) 11, AV3 C IN 12, GND (AV) 13, AV3 Y IN 14, AV3 S-VHS IN Ⓛ 15

TW3901

Ⓢ MAIN IIC CLOCK (A3)
Ⓢ MAIN IIC DATA (A2)
Ⓥ FSC (A1)
Ⓢ MUTE Ⓗ
Ⓢ RFC MUTE Ⓗ
Ⓡ PS 5V
Ⓡ N.SW 5V
Ⓡ PS 12V

QR4501 UN2113 (BUFFER) -1.4 (-0.6)
QR4503 XN0121600L (MUTE) -1.4 (-0.6)
QR4504 XN0121600L (MUTE) -1.4 (-0.6)
QR4502 UN2113 (BUFFER) -1.3 (-0.6)
QR4507 UN2216 (MUTE)

L4502 1.2u
L4503 0
L4501 1.2u

IC4501 AN3656NFBPBV

IIC BUS INTERFACE
SWITCH RCH
SWITCH LCH
NORMAL OUTPUT SWITCH
OUTPUT SELECT SWITCH RCH
OUTPUT SELECT SWITCH LCH
DET
VCO-FO
VCC
GND(R)
REC AGC ADJ.
MUTE CONTROL
VREF
GND (L)
PNR RCH
AGC & SWITCH
FM MODULATOR/ DEMODULATOR
LPF
BPF
AGC
REC AGC DET
ENV.DET OUT
REC DC2
PREAMP & SWITCH
INPUT SWITCH RCH
INPUT SWITCH LCH
PNR LCH

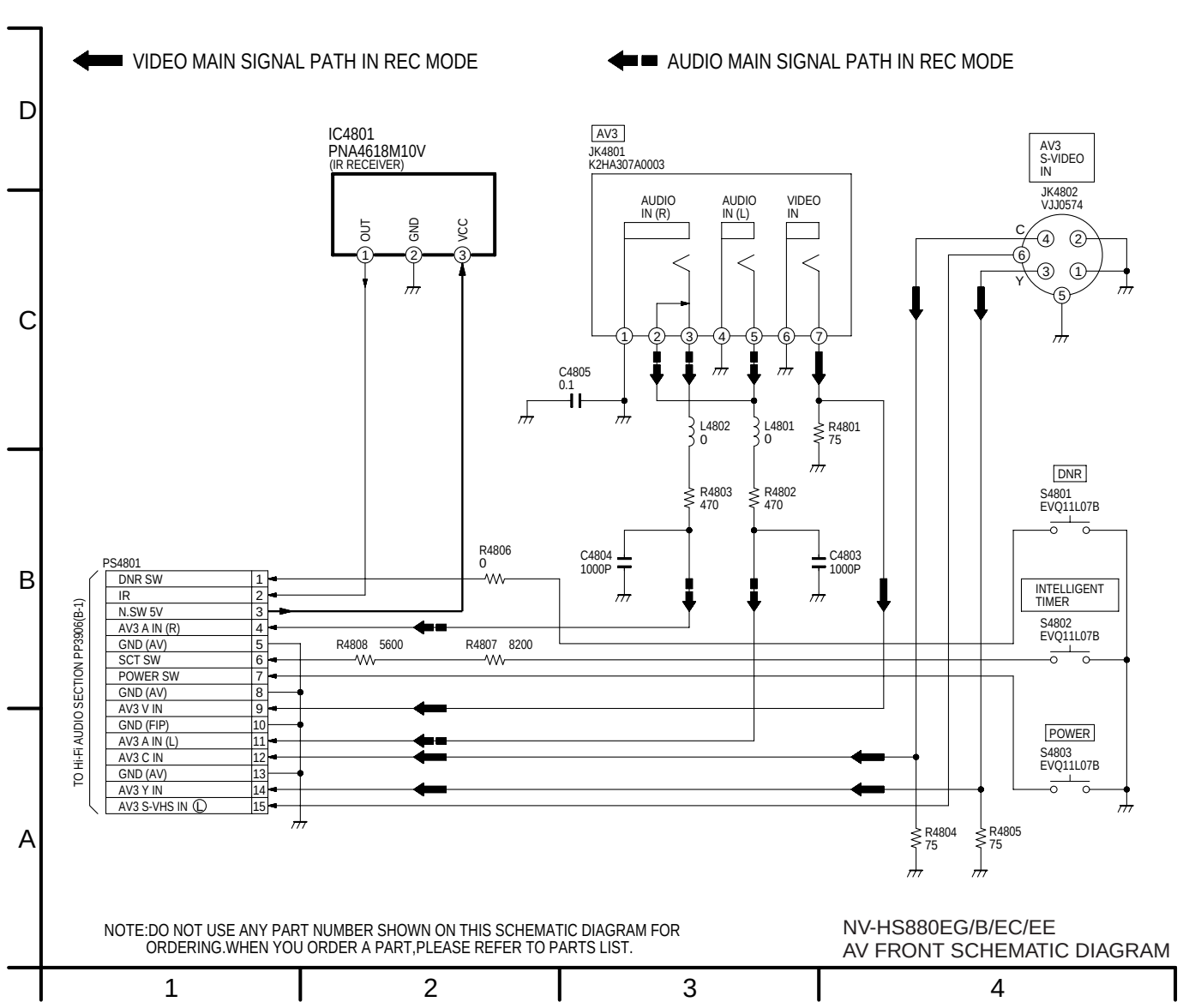
D.FM REC Ⓗ Ⓢ
ABS NORMAL Ⓗ Ⓢ
A.HEAD SW Ⓢ
GND(A) Ⓥ
AUDIO HEAD L Ⓥ
AUDIO HEAD R Ⓥ
AUDIO HEAD COM Ⓥ
RFC VIDEO OUT Ⓡ
AV1 PB 12V Ⓢ
TUNER VIDEO Ⓡ
OSD IIC DATA Ⓢ
OSD IIC CLOCK Ⓢ
VV C OUT Ⓥ
Y/C C OUT Ⓥ
OSD PULSE Ⓢ
PROG Ⓗ Ⓢ
Y/C Y OUT Ⓥ
VIDEO/Y IN Ⓥ
AV2/AV3 C IN Ⓥ
OSD VIDEO OUT Ⓢ
AV2 PB Ⓗ Ⓢ
PROJECT 50 Ⓢ
S-VHS SW Ⓛ Ⓢ
DNR SW Ⓣ
IR Ⓢ
SCT SW Ⓣ
POWER SW Ⓣ
AV3 S-VHS IN Ⓛ Ⓢ
AUDIO IN (N) Ⓥ
RFC AUDIO OUT Ⓡ
AUDIO OUT (N) Ⓥ
TUNER AUDIO (R) Ⓡ
TUNER AUDIO (L) Ⓡ
GND Ⓡ
GND (SYS) Ⓡ
GND (LVM) Ⓡ
GND (HA2) Ⓡ

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.(SP MODE)

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
Hi-Fi AUDIO SECTION SCHEMATIC DIAGRAM



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
AV FRONT SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

TO HI-FI AUDIO SECTION PF2904(E-1)
PS3901: GND (AV) 1, GND (AV) 2, GND (AV) 3

TO HI-FI AUDIO SECTION PF2902(F-1)
PS3902: RFC VIDEO OUT 1, GND (AV) 2, AV1 A IN (R) 3, AV2 A IN (R) 4, GND (AV) 5, AV1 A IN (L) 6, AV2 A IN (L) 7, GND (AV) 8, AV1 A OUT (L) 9, AV1 A OUT (R) 10, GND (AV) 11, AV2 A OUT (R) 12, AV2 A OUT (L) 13, AV1 PB (H) 14

TO HI-FI AUDIO SECTION PF2904(E-1)
PS3904: AV3 C IN 1, PS 12V 2, AV3 VIDEO IN 3, 4, TUNER VIDEO IN 5, GND (AV) 6, OSD IIC DATA 7, OSD IIC CLOCK 8, GND (AV) 9, VV C OUT 10, GND (AV) 11, 12, PS 5V 13, Y/C C OUT 14, OSD PLUSE 15, PROG (H) 16

TO HI-FI AUDIO SECTION PF2905(C-1)
PS3905: Y/C Y OUT 1, GND (AV) 2, VIDEO/Y IN 3, GND (AV) 4, AV2/AV3 C IN 5, GND (AV) 6, 7, GND (AV) 8, AV3 Y IN 9, GND (AV) 10, OSD VIDEO OUT 11, AV2 PB (H) 12, PROJECT 50 13, S-VHS SW (L) 14

IC3901 LA73023V

INTER-FACE
IIC BUS INTERFACE
CLAMP
VIDEO OUTPUT SELECT SW (AV2)
VIDEO OUTPUT SELECT SW (AV1)
CPN Y OUTPUT SELECT SW & SUPERIMPOSE
CPN C OUTPUT SELECT SW & SUPERIMPOSE
CPN Y INPUT SELECT SW
CPN C INPUT SELECT SW
VIDEO INPUT SELECT SW
MUTE

Q3902 2SD601A (AV2 PB:ON)
QR3902 UN2215 (SWITCHING)
QR3901 UN2212 (RGB OFF (H):ON)
Q4901 2SD1328 (RGB ON:ON)
Q3901 2SD601A (AMP)
Q3904 2SD601A (PROG (H):ON)
Q3903 2SD601A (PROG (H):ON)
D3901 MA165
D3902 MA4075NM
D3903 MA4075NM

AV1 OUT NORMAL⇔S
S4901 VSS0513

TP3002 TP3003 TP3021 TP3022 TP3023 TP3024 TP4503 TP4504 TP4505 TP4506 TP3090

S-VIDEO OUT
JK4903 VJJ0416: AUDIO OUT (R), AUDIO OUT (L), VIDEO OUT
JK4902 VJS1470 (AV1)
JK4901 VJS1470 (AV2)

(TV)
1 AUDIO OUT CH2 (R)
2 AUDIO IN CH2 (R)
3 AUDIO OUT CH1 (L)
4 GND (A)
5 GND (BLUE)
6 AUDIO IN CH1 (L)
7 BLUE
8 PB +12V
9 GND (GREEN)
10 CONTROL
11 GREEN
12
13 GND (RED)
14 GND (BLANK)
15 RED/C OUT
16 BLANKING
17 GND (V OUT)
18
19 VIDEO OUT/Y OUT
20 VIDEO IN
21 GND

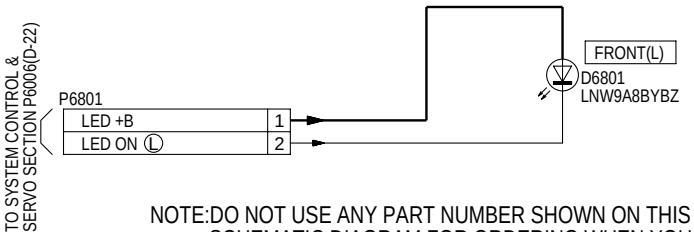
(DECODER/EXT)
1 AUDIO OUT CH2 (R)
2 AUDIO IN CH2 (R)
3 AUDIO OUT CH1 (L)
4 GND (A)
5 GND (BLUE)
6 AUDIO IN CH1 (L)
7 BLUE
8 AV2 +12V
9 GND (GREEN)
10 CONTROL
11 GREEN
12 DATA
13 GND (RED)
14 GND (BLANK)
15 RED/C IN
16 BLANKING
17 GND (V OUT)
18 GND (V IN)
19 VIDEO OUT
20 VIDEO IN/Y IN
21 GND

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.(SP MODE)

NOTE:DO NOT ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
INPUT/OUTPUT PACK SCHEMATIC DIAGRAM

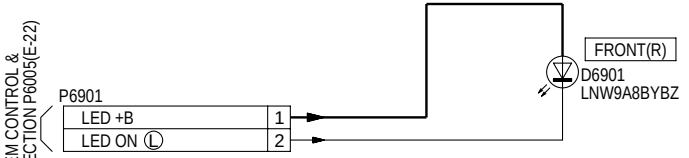


NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
LED (L) SCHEMATIC DIAGRAM

A

1 2 3 4



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
LED (R) SCHEMATIC DIAGRAM

A

1 2 3 4

AUDIO SIGNAL PATH

L7302
1u

X7302
VSX0953

C7316
0.1

R7327
8200

R7325
0

C7315
0.1

C7307
0.01

R7302
0

C7311
0

PK7301
TO POWER SUPPLY/RF SECTION PK7301 (C-10)

QPSK/SIF	1	1.6
GND	2	
TUNER AUDIO (N)	3	0
	4	
	5	
	6	
TUNER 5V	7	4.9

IC7302
PST7043

(RESET)

IN GND OUT

C7343
2200P

L7301
0

C7308
50V2.2

C7312
22P

R7305
100

R7306
100

C7305
33P

C7306
33P

PK7302
TO POWER SUPPLY/RF SECTION PK7302 (B-10)

OSD IIC CLOCK	1	4.8
OSD IIC DATA	2	4.6
	3	
TUNER AUDIO (R)	4	0
GND	5	
TUNER AUDIO (L)	6	0

FL7301
VLF0633

C7304
6V100

C7301
0.01

C7341
4700P

C7342
4700P

22	TEST1	3.3	
21	VDDA2		
20	VSSA2		
19	VDDR2	2.0	
18	1 REF		
17	TEST2		
16	TP3	1.6	
15	XTAL I	1.6	
14	XTAL O		
13	ADDR1	0.4	
12	PCLK		
23	SIF2	2.0	
24	VREF1	2.0	
25	SIF1	2.0	
26	CRESET	4.9	
27	VSSA3		
28	VDDA3	4.9	
29	SCL	4.8	
30	SDA	4.6	
31	SDO	1.2	
32	WS	1.2	
33	SCK	1.2	
34	SYS CLK	1.2	
35	VDDD3	4.8	
36	VSSD3		
37	P1	4.9	
38	MONO IN	2.4	
39	EXTIR	2.4	
40	EXTIL	2.4	
41	VREF2	2.4	
42	P2	4.9	
43	OUT M	2.5	
44	VSSA4		
11	TP1		
10	NICAM	0.4	
9	TP2		
8	VDEC2	0	
7	VSSD2		
6	VDDD1	4.8	
5	VSSD1		
4	VSSA1		
3	VDDA1	4.9	
2	OUT R	2.5	
1	OUT L	2.5	

INPUT SWITCH AGC, ADC

FM/AM DEMODULATION

IDENTIFI-CATION

IIC BUS INTERFACE

IIC BUS INTERFACE

NICAM DEMODULATION

NICAM DECODER

DEMATRIX

2 CHANNEL ANALOG/ SATELLITE DECODER

DIGITAL SELECTOR

LEVEL ADJUST

POST FILTER 3 DACS

2 CHANNEL OUTPUT BUFFERS

ANALOG CROSSBAR SWITCH

MONO CHANNEL OUTPUT BUFFERS

IC7301
TDA9874AH

R7316
10K

LB7303
0

TL7301

TL7303

C7313
0.1

C7318
6V47

TL7304

R7324
220

C7317
16V10

LB7301
0

C7325
0.1

C7324
0.1

R7328
220

C7319
16V10

R7329
220

C7320
16V10

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

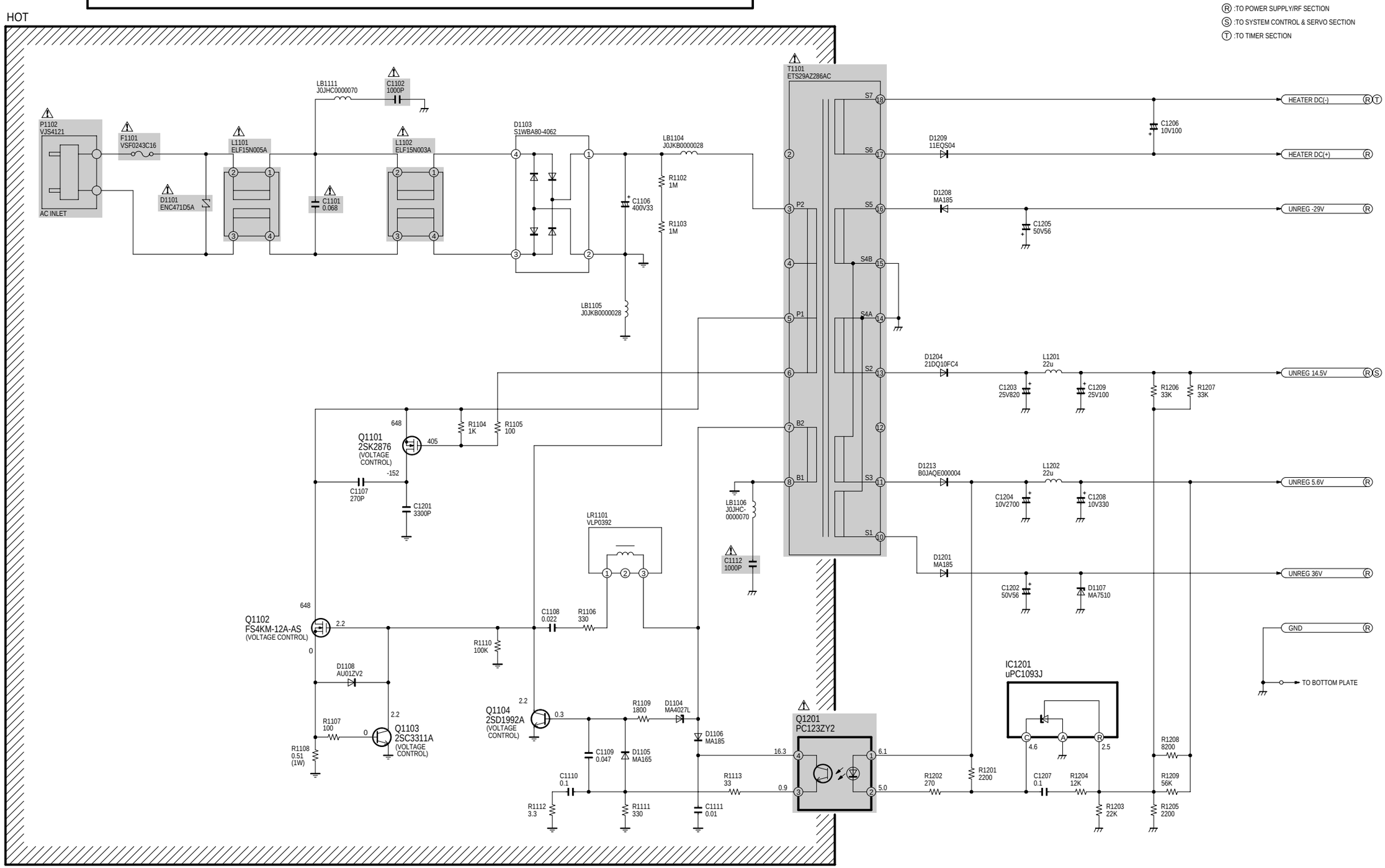
NV-HS880B/EC/EE
NICAM DECODER PACK SCHEMATIC DIAGRAM

CAUTION

THE STRIPED FRAME INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

HOT

Ⓡ :TO POWER SUPPLY/RF SECTION
Ⓢ :TO SYSTEM CONTROL & SERVO SECTION
Ⓣ :TO TIMER SECTION



NOTE1:WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT,SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE..... ⏚
SECONDARY SIDE... ⏚
NOTE2:THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 240V.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,USE ONLY THE SAME TYPE.

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.
NOTE:THE MEASURMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NV-HS880EG/B/EC/EE
POWER TRANSFORMER SECTION SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

(P) :TO POWER TRANSFORMER SECTION
(S) :TO SYSTEM CONTROL & SERVO SECTION
(V) :TO LUMINANCE & CHROMINANCE/AUDIO SECTION
(A) :TO Hi-Fi AUDIO SECTION
(T) :TO TIMER SECTION

TU7601
TUNER UNIT
ENG47327G1:EG/EC
ENG47328G1:B
ENG47329G1:EE

Q1001 2SD602A (BUFFER)
QR1002 UN2212 (FIP ON/OFF CONTROL)
Q1011 2SC1959Y (12V REG)
QR1003 UN2112 (FIP Ⓛ:ON)
QR1006 UN2211 (POWER OFF Ⓗ:ON)
Q1003 2SB710A (POWER SAVE:OFF)
Q1008 2SC1959Y (5V REG)
Q1009 2SC1959Y (5V REG)
Q1010 2SC1959Y (5V REG)
Q1012 2SC1959Y (3.3V REG)
Q1005 2SC1959Y (12V REG)
Q1004 2SD601A (VOLTAGE CONTROL)
IC1001 UPC1093J
Q1007 2SD602A (5V REG)
Q1002 2SC1959Y (5V REG)
Q1006 2SC1959Y (5V REG)
Q7601 2SD601A (MUTE)

P HEATER DC (-)
P HEATER DC (+)
T HEATER (+)
P UNREG -29V
T FIP -29V
S FIP Ⓛ
S POWER OFF Ⓗ
S POWER SAVE Ⓗ
P UNREG 36V
P UNREG 14.5V
P UNREG 5.6V
P GND
S GND
S GND (SYS)
S GND (FG)
S GND (MOTER)
S GND (CYL)
S GND (AV)
V GND
V GND (SYS)
V GND (HA)
V GND (HA2)
A GND
A GND (SYS)
A GND (LVM)
A GND (HA2)
T GND
V REG 3.3V
V DIGITAL 5V
S V VIDEO 5V
S REG 5V
S V A PS 12V
S SW 12V
S V A PS 5V
V BIAS 5V
S V N.SW 5V
A T N.SW 5V
S AUDIO DEF Ⓗ A1
A RFC VIDEO OUT A2
A TUNER AUDIO (L) A3
A TUNER AUDIO (R) A4
S OSD IIC DATA A5
S OSD IIC CLOCK A6
V TUNER AUDIO (N) A7
A TUNER VIDEO A8
S AFC S-CURVE A9
S SW2 A10
S MAIN IIC DATA A11
S MAIN IIC CLOCK A12
A RFC AUDIO OUT A13

1 N.SW 5V
2 AUDIO OUT
3 DATA
4 PS 5V
5 CLOCK
6 VIDEO OUT
7
8
9
10
11 CLOCK
12 DATA
13
14 TUNER 5V
15 SW1
16 BTL 30V
17 IF OUT
18 IF IN

DU7601
19 SW1 PK0701-1
20 SW2 PK0701-2
21 ——— PK0701-3
22 SIF/QPSK PK0701-4
23 AFC S-CURVE PK0701-5
24 TUNER VIDEO PK0701-6
25 TUNER 5V PK0701-7
26 ——— PK0701-8
27 GND PK0701-9
TO TV (DEMODULATOR PACK PK0701(D-1))

PK7301
1 SIF/QPSK
2 GND
3 TUNER AUDIO (N)
4 ———
5 ———
6 ———
7 TUNER 5V
TO DECODER PACK PK7301(F-1):EG PK7301(D-1):B/EC/EE
TO NICAM DECODER PACK

PK7302
1 OSD IIC CLOCK
2 OSD IIC DATA
3 ———
4 TUNER AUDIO (R)
5 GND
6 TUNER AUDIO (L)
TO DECODER PACK PK7302(D-1):EG PK7302(C-1):B/EC/EE
TO NICAM DECODER PACK

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,USE ONLY THE SAME TYPE.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
POWER SUPPLY/RF SECTION SCHEMATIC DIAGRAM

Ⓟ :TO POWER TRANSFORMER SECTION
Ⓡ :TO POWER SUPPLY/RF SECTION
Ⓥ :TO LUMINANCE & CHROMINANCE/AUDIO SECTION
Ⓐ :TO HI-FI AUDIO SECTION
Ⓣ :TO TIMER SECTION

CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP

(A23) (A7) (A8) (A25) (A26) (A9) (A27) (A28) (A10) (A11) (A29) (A30) (A12) (A31)

QR6002
XN1212
(A.DUB Ⓗ:ON)

IC6001
M37970VXMU

IC1502
RPI354N
(S-REEL)

IC1501
RPI354N
(T-REEL)

Q1501
PNB2301MBV
(T-PHOTO)

Q1502
PNB2301MAV
(S-PHOTO)

Q6008
2SD601A
(AV1 PB:ON)

QR6001
UN2215
(AV1 PB Ⓛ:OFF)

Q6002
2SB709A
(AMP)

S1502
VST0325

S1501
K0G934A-00002

TW2002
TW2015
TW2001
TW6002
TL6010
TL6012
TL6013
TL2503
TL2502

X6002
H0H200-500011

X6001
VSX1022

SENSOR
D1501
SIR505S

S-VHS CASSETTE

MODE SW

(A) IR → (A21)
(A) PROG Ⓗ → (A18)
(A) OSD PULSE → (A17)
(R) SW2 → (A14)
(T) SAFETY TAB Ⓛ → (A12)
(R)(V)(A) MAIN IIC CLOCK → (A11)
(R)(V)(A) MAIN IIC DATA → (A10)
(V) EE Ⓛ → (A9)
(V) CYL HEAD (-) → (A8)
(V) CYL HEAD (+) → (A7)
(V) FREQ. ADJ. → (A6)
(V) PAL EP Ⓗ → (A4)
(V) LP Ⓗ → (A3)
(A) AV2 PB Ⓗ → (A2)
(A) RFC MUTE Ⓗ → (A1)
(V) TRACKING ENV.
(R) AFC S-CURVE
(R) N.SW 5V
(R) REG 5V
(R) PS 5V
(R) PS 12V
(R) GND
(R) GND (SYS)
(R) GND (FG)
(R) GND (MOTOR)
(R) GND (CYL)
(R) GND (AV)
(A) S-VHS SW Ⓛ
(T) BACK UP 5V

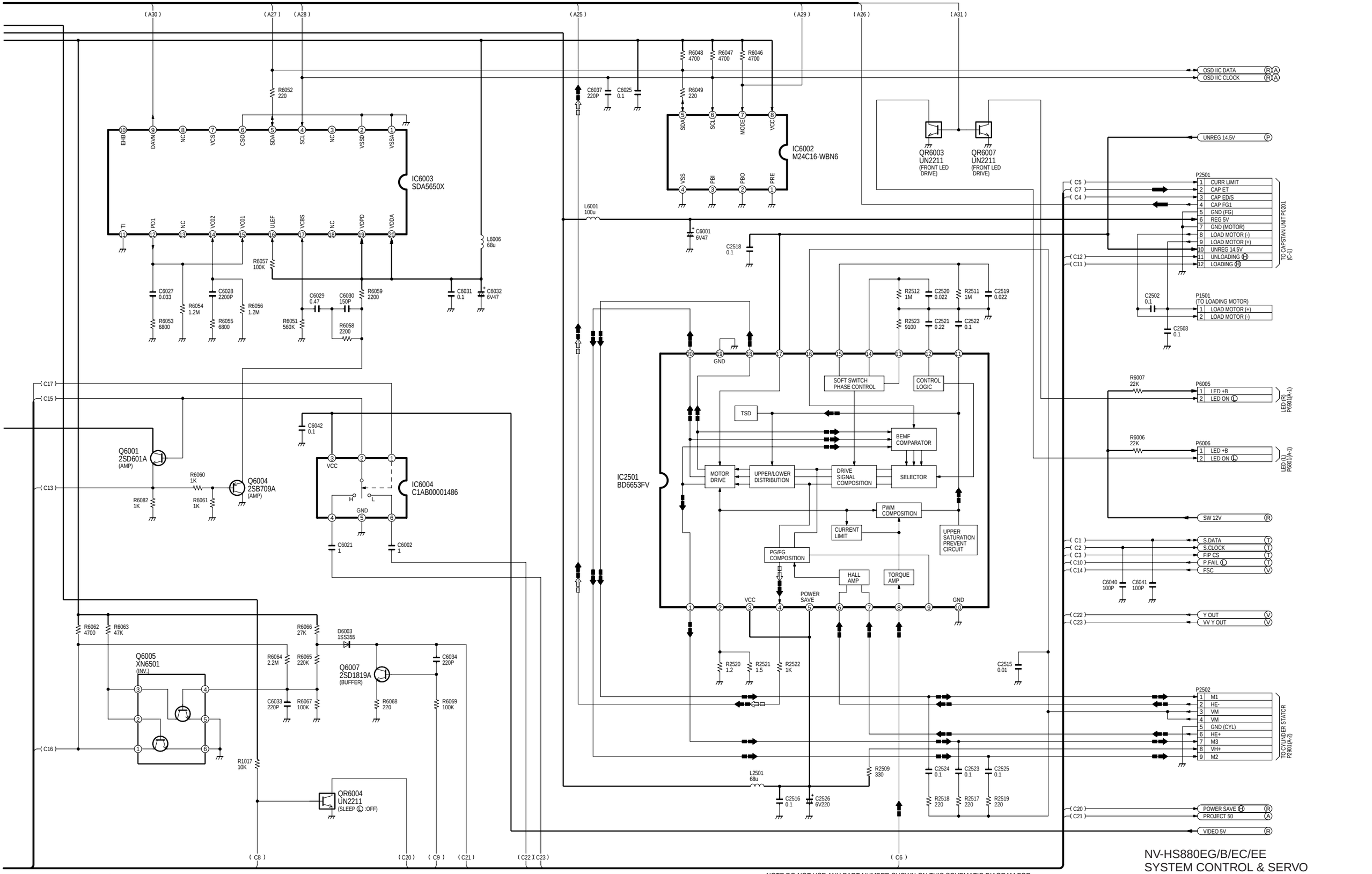
(A) ABS NORMAL Ⓗ → (B4)
(V) NORMAL Ⓛ → (B5)
(V) S-VHS Ⓗ → (B6)
(A) D.FM REC Ⓗ → (B8)
(V) ART V/H/N → (B9)
(V) ET REC Ⓗ → (B11)
(A) A.HEAD SW → (B12)
(R) AUDIO DEF Ⓗ → (B13)
(V) TBC MODE O → (B14)
(V) HEAD SW → (B15)
(V) V.EE Ⓛ → (B16)
(V) D.A.REC Ⓗ → (B17)
(V) BIAS Ⓛ → (B18)
(V)(A) MUTE Ⓗ → (B19)
(V) FULL ERASE Ⓗ → (B20)
(T) POWER KEY → (B21)
(R) POWER OFF Ⓗ → (B22)
(R) FIP Ⓛ → (B23)
(T) RESET Ⓛ → (B24)
(V) SHORT DET Ⓛ → (B25)
(V)(A) OSD VIDEO OUT → (B26)
(A) AV3 S-VHS IN Ⓛ
(A) AV1 PB 12V

IC6001 pin 1 CURRENT LIMIT
IC6001 pin 2 F ADJ.
IC6001 pin 3 S CAS Ⓛ ← (A6)
IC6001 pin 4 A.DUB Ⓗ
IC6001 pin 5 TRACKING ENV. ← (A4)
IC6001 pin 6 SLP Ⓗ ← (A3)
IC6001 pin 7 LP Ⓗ ← (A2)
IC6001 pin 8 CPB
IC6001 pin 9 AFC S
IC6001 pin 10 A MUTE Ⓗ ← (A1)
IC6001 pin 11 AV1 PB +12V
IC6001 pin 12 N/S/T1/T2
IC6001 pin 13 S-PHOTO
IC6001 pin 14 T-PHOTO
IC6001 pin 15 ABS NORM Ⓗ ← (B4)
IC6001 pin 16 SPB Ⓗ/MES Ⓜ/NOR Ⓛ ← (B5)
IC6001 pin 17 S-VHS Ⓗ ← (B6)
IC6001 pin 18 SECAM ID IN
IC6001 pin 19 D.FM REC Ⓗ ← (B8)
IC6001 pin 20 ART V/H/N ← (B9)
IC6001 pin 21 S SW Ⓛ
IC6001 pin 22 AV3 S IN Ⓛ
IC6001 pin 23 ET REC Ⓗ ← (B11)
IC6001 pin 24 VIDEO H.SW
IC6001 pin 25 AUDIO H.SW ← (B12)
IC6001 pin 26 A.DEF Ⓗ ← (B13)
IC6001 pin 27 TBC MODE ← (B14)
IC6001 pin 28 AVPB-H Ⓛ
IC6001 pin 29 AVPB-M Ⓜ
IC6001 pin 30 GND(D) → (B15)
IC6001 pin 31 20MHz IN
IC6001 pin 32 20MHz OUT → (B16)
IC6001 pin 33 +5V(D)
IC6001 pin 34 32KHz IN
IC6001 pin 35 32KHz OUT
IC6001 pin 36 VC OUT
IC6001 pin 37 V.EE Ⓛ ← (B17)
IC6001 pin 38 LED ON Ⓗ ← (B18)
IC6001 pin 39 D.A.REC Ⓗ ← (B19)
IC6001 pin 40 BIAS Ⓛ ← (B20)
IC6001 pin 41 FM MUTE Ⓗ ← (B21)
IC6001 pin 42 FULL ERASE Ⓗ ← (B2)
IC6001 pin 43 POWER KEY ← (B1)
IC6001 pin 44 POS.SW3 ← (B3)
IC6001 pin 45 POS.SW2 ← (B22)
IC6001 pin 46 POS.SW1 ← (B23)
IC6001 pin 47 POWER OFF Ⓗ → (B24)
IC6001 pin 48 FIP Ⓛ
IC6001 pin 49 P50 IN
IC6001 pin 50 LC.OSC IN
IC6001 pin 51 LC.OSC OUT
IC6001 pin 52 RESET Ⓛ
IC6001 pin 53 4FC LPF
IC6001 pin 54 OSD FSC IN
IC6001 pin 55 +5V(OSD)
IC6001 pin 56 CV IN
IC6001 pin 57 GND(OSD)
IC6001 pin 58 LECA
IC6001 pin 59 20Hz START Ⓗ
IC6001 pin 60 MD0
IC6001 pin 61 CV OUT
IC6001 pin 62 HLF
IC6001 pin 63 V HOLD
IC6001 pin 64 CV IN (EDS)
IC6001 pin 65 SHORT DN Ⓛ
IC6001 pin 66 UNLOADING Ⓗ
IC6001 pin 67 LOADING Ⓗ
IC6001 pin 68 PAL-I/BG/DK → (A14)
IC6001 pin 69 SECAM/PAL
IC6001 pin 70 AD V
IC6001 pin 71 OSD PULSE → (A17)
IC6001 pin 72 SLEEP Ⓛ → (C8)
IC6001 pin 73 PROG Ⓗ → (A18)
IC6001 pin 74 NAVI Ⓗ
IC6001 pin 75 NAVI DATA
IC6001 pin 76 P FAIL Ⓛ → (C9)
IC6001 pin 77 IR → (A21) → (C10)
IC6001 pin 78 P50 OUT
IC6001 pin 79 CAP ET → (C6)
IC6001 pin 80 CYL ET → (C7)
IC6001 pin 81 BW Ⓗ → (A23)
IC6001 pin 82 HALF WAVE Ⓗ → (C5)
IC6001 pin 83 CAP F/R → (C4)
IC6001 pin 84 125Hz → (C3)
IC6001 pin 85 FLD CS → (C2)
IC6001 pin 86 FLD/T2 CLOCK → (C1)
IC6001 pin 87 FLD/T2 DATA IN
IC6001 pin 88 FLD/T2 DATA OUT
IC6001 pin 89 5P CLOCK
IC6001 pin 90 5P DATA IN
IC6001 pin 91 5P DATA OUT
IC6001 pin 92 S TAB Ⓛ
IC6001 pin 93 T-REEL PULSE
IC6001 pin 94 S-REEL PULSE
IC6001 pin 95 DAVN
IC6001 pin 96 EEP WR
IC6001 pin 97 MAIN IIC CLOCK
IC6001 pin 98 MAIN IIC DATA
IC6001 pin 99 OSD IIC CLOCK
IC6001 pin 100 OSD IIC DATA
IC6001 pin 101 EE Ⓛ
IC6001 pin 102 EX-F/FREW Ⓛ
IC6001 pin 103 FG AMP OUT
IC6001 pin 104 FG AMP IN
IC6001 pin 105 GND(A)
IC6001 pin 106 GND
IC6001 pin 107 PFG
IC6001 pin 108 O REF
IC6001 pin 109 I REF
IC6001 pin 110 GND
IC6001 pin 111 CTL HEAD(-)
IC6001 pin 112 CTL HEAD(+)
IC6001 pin 113 CTL AMP REF
IC6001 pin 114 PB CTL OUT
IC6001 pin 115 +5V(A)
IC6001 pin 116 +5V(AD)

R2507 270K
R2508 43K
C6020 1
C6026 0.1
R6033 8200
L6003 220u
C6018 0.022
C6032 1K
C6019 0.1
R1506 10K
R6045 100K
R6023 27K
C6015 16V10
R6025 43K
R6022 100
R6026 39K
C6016 0.01
R6019 10K
R6021 27K
R6020 39K
R1501 120
C1501 0.1
C2514 0.1
R6018 4700
R6001 4700
R6072 22K
R6073 470K
D6004 1SS355
R6071 18K
R6074 470
R6075 22K
R6076 15K
C6013 1
R6017 1K
C2508 0.1
C6017 680P
R6031 6800
C2513 3900P
C2512 25V4.7
C2511 6V22
C2509 0.47
R2505 3900
C2510 33P
R2506 1M
D2502 MA165
D2501 MA165
R6030 4700
R6029 4700
R6036 470
R6035 470
R6015 470
R6014 470
R6024 4700
R6028 220
R6027 220
R6010 4700
R1504 27K
R1503 27K
R6081 220
R6012 220
R6011 220
R6013 220
R2503 10K
R2504 10K
C2507 0.056
C2505 0.056
R2502 2200
R2501 0
C2506 0.056
R6016 2200
R6078 470
C6035 1
C6036 56P
R6077 1M
C6014 1000P
R6043 0
R6008 47K
R6041 1500
R6040 1K
C6023 1
C6022 220P
R6039 1K
R6009 22K
R1505 100
R6002 1K
C6005 0.01
C6003 470P
C6004 0.01
X6002 H0H200-500011
R6005 0
C6012 15P
C6011 18P
X6001 VSX1022
R6004 220K
C6010 18P
C6009 18P
L6005 68u
R1502 180
C6024 6V220

NV-HS880EG/B/EC/EE SYSTEM CONTROL & SERVO SECTION SCHEMATIC DIAGRAM

1 2 3 4 5 6 7 8 9 10 11 12



NV-HS880EG/B/EC/EE SYSTEM CONTROL & SERVO SECTION SCHEMATIC DIAGRAM

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
SYSTEM CONTROL & SERVO
SECTION SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH PLAYBACK MODE

TO LUMINANCE & CHROMINANCE/ AUDIO SECTION PP3002(F-23)

PS3301: GND (DNR) 1, VV C OUT 2, GND (DNR) 3, VV Y OUT 4, REG 12V 5, EE 6

TO LUMINANCE & CHROMINANCE/ AUDIO SECTION PP3001(E-23)

PS3302: TBC MODE 0 1, Y/C C OUT 2, ADV 3, HEAD SW 4, GND (DNR) 5, SEP IN 6, 7, 8, GND (DNR) 9, SEP C OUT 10, GND (DNR) 11, SEP Y OUT 12, GND (DNR) 13, REG 3.3V 14, FSC 15, DIGITAL 5V 16, MAIN IIC DATA 17, MAIN IIC CLOCK 18

Q3313 2SB1218A (INV.)
Q3314 2SD1819A (AMP)
Q3312 2SB1218A (AMP)
QR3301 DTC363EK (PB:ON)
Q3311 2SD1819A (AMP)
Q3310 2SD1819A (AMP)
Q3307 2SD1819A (AMP)
Q3308 2SD1819A (AMP)
Q3303 2SD1819A (AMP)
Q3304 2SB1218A (INV.)
Q3301 2SD1819A (AMP)
Q3315 2SB1218A (AMP)
Q3302 2SB1218A (AMP)

IC3303 PQ1K253M2ZP (2.5V REG.): VIN, VOUT, GND, GND, VC, NR

IC3302 R3112N251A (RESET): OUT, CD, VDD, GND

IC3301 TC90A88F (3D Y/C SEP.& 3D NR TBC)

YC IN, VSS YAD, Y IN, VDD YAD, VRB YAD, VRB CAD, VDD CAD, C IN, VSS CAD, VRT CAD, A VSS1, VDD YCDA, C OUT, VSS YCDA, Y OUT, BIAS DA2, BIAS DA1, VREF DA, A VSS2, VDD PLL

VRTY AD, BIAS AD, CLAMP P, VSS IO3, SDA, SCK, VDD IO3, IIC SEL, RESET, D VSS3, MODE 2, MODE 3, D VDD3, TIN 14, TIN 13, TIN 12, TIN 11, TIN 10, VSS RAM3, TIN 9, TIN 8, VDD RAM3, TIN 7, TIN 6, TIN 5, TIN 4, TIN 3, TIN 2, TIN 1, VSS RAM2

VSS PLL, FSC IN, VDD VCO, FIL 1, FIL 2, VSS VCO, MODE 1, CSYNC IN, DOC IN, KILLER, TIN J6, D VDD1, TIN J5, DTMB, D VSS1, DT CLK, TOUT 1, TOUT 2, VDD RAM1, TOUT 3, TOUT 4, VSS RAM1, MASKP 1, VDD IO1, MASKP 2, PAL ID, VSS IO1, F50, NONST, SYNC DET

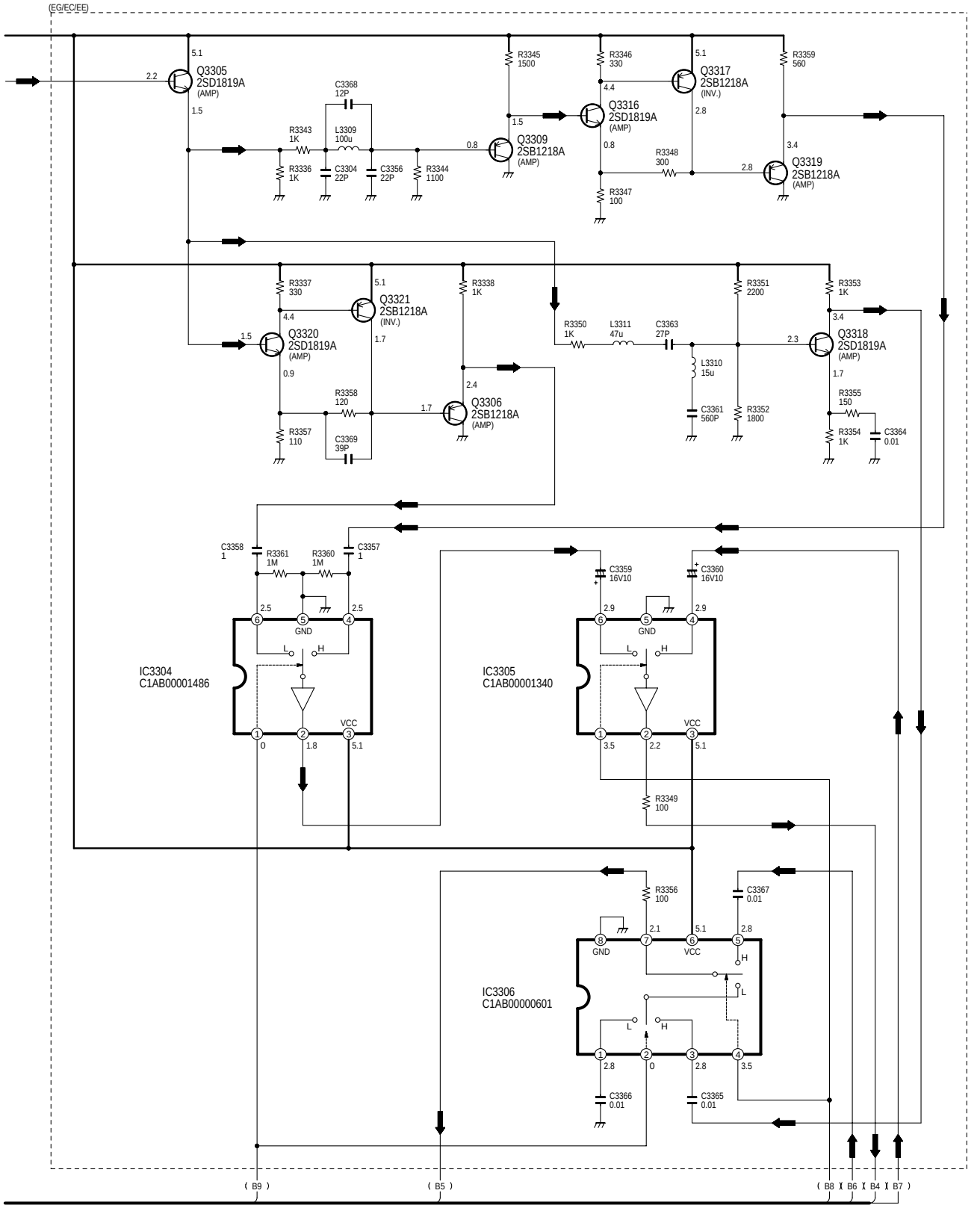
VDD RAM2, TBC WE, HSW IN, PV IN, ADV OUT, D VSS2, OSC CK, D VDD2, TEST 3, TEST 2, TEST 1, VSS IO2, HD OUT, VD OUT, VDD IO2, OSD A2, OSD A1, OSD B, OSD G, OSD R

PED. CLAMP, A/D 4FSC, DELAY ADJ., MEMORY, 3D Y/C SEP., TBC, 3D DNR, SYNC TIMING CONTROL, BIAS, D/A 8FSC, UP SAMPLING, ENCODER (BURST CHANGE), EQ, CNR, DELAY ADJ., EQ YNC, BLACK EXPANSION (SYNC CHANGE), YNR LNR, DECODER, REC, PB

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.(SP MODE)

NV-HS880EG/B/EC/EE
TBC/DNR PACK SCHEMATIC DIAGRAM

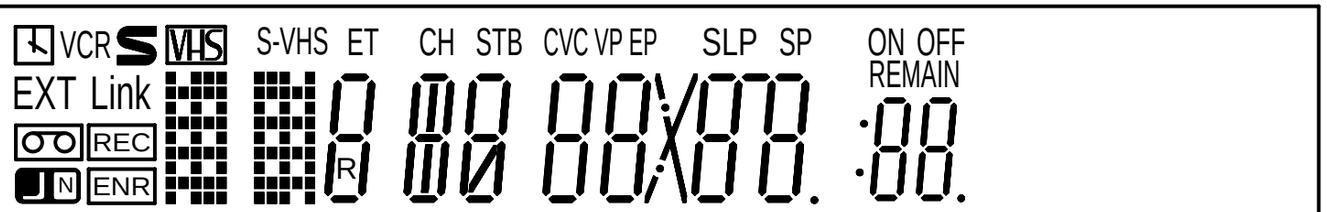


NV-HS880EG/B/EC/EE
TBC/DNR PACK SCHEMATIC DIAGRAM

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

Ⓟ :TO POWER TRANSFORMER SECTION
Ⓡ :TO POWER SUPPLY/RF SECTION
Ⓢ :TO SYSTEM CONTROL & SERVO SECTION
Ⓐ :TO Hi-Fi AUDIO SECTION

DP7501
A2BD00000057



R7507 68
R7508 68
C7501 0.01
D7501 MA4220NM
C7502 50V10
R7511 820
R7510 820
R7509 100

Ⓡ HEATER (+)
Ⓟ HEATER DC (-)
Ⓡ FIP -29V

F+ F+ P1 P2 P3 P4 P5 P6 P7 P8 NC P9 P10 P11 P12 P13 P14 P15 P16 P17 P18 NC NC NC NC NC NC NC NC NC NC 1G 2G 3G 4G 5G 6G 7G NC NC F- F-
1 2 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 44 45

-28.4 -28.3 -29.0 -29.4 -28.3 -28.1 -28.5 -24.3 -29.0 -24.3 -24.1 -24.3 -19.0 -24.3 -24.1 -14.3 -29.4 -29.4
36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19
S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 VEE

IC7501
M35502AFP

S DATA S CLOCK CS Ⓛ A3 A2 A5 A4 VSS OSC VCC G1 G2 G3 G4 G5 G6 G7 S18
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
4.9 5.0 2.4 5.2 5.2 5.2 5.2 2.3 5.2 -24.8 -24.8 -24.8 -24.8 -24.8 -24.8 -24.8 -24.8 -29.4

R7512 0
C7503 12P

Ⓢ S.DATA
Ⓢ S.CLOCK
Ⓢ FIP CS
Ⓢ SAFETY TAB Ⓛ
SAFETY TAB
S7507 K0C111A00003
Ⓐ POWER SW
Ⓢ POWER KEY
R7521 22K
Ⓡ N.SW 5V
Ⓡ GND
Ⓢ P.FAIL Ⓛ
Ⓢ RESET Ⓛ
Ⓢ BACK UP 5V
Ⓐ SCT SW
Ⓐ DNR SW

R7533 22K
R7517 10K
R7518 10K
R7513 30K
R7515 30K
R7516 30K
R7514 30K

IC7504
C0EBH0000218
(RESET)
5.2 RST 5
5.2 VDD
VSS 4

IC7503
C0EBE0000211
(RESET)
4.9 OUT CD 4.4
4.9 VDD
GND 0

C7511 0.1
C7510 0.01
R7535 10K
C7504 6V100
C7509 6800P
D7503 RB441PT-77
R7534 180
C7507 VCE0073
C7508 6V220

CH UP S7504 EVQ11404M
PAUSE S7503 EVQ11404M
PLAY S7511 EVQ11L07B
REW S7512 EVQ11G07K
CH DOWN S7502 EVQ11G07K
REC S7501 EVQ11G07K
STOP S7515 EVQ11L07B
TIMER REC S7513 EVQ11L07B
FF S7514 EVQ11G07K
EXT LINK S7510 EVQ11G07K
EJECT S7505 EVQ11L07B
A.DUB S7509 EVQ11L07B

R7506 4300
R7505 5600
R7504 8200
R7537 12K
R7503 4300
R7502 5600
R7501 8200
R7538 12K
R7519 4300
R7536 5600
R7522 8200
R7523 12K
NC

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE:DO NOT USE PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLESE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
TIMER SECTION SCHEMATIC DIAGRAM

F E D C B A
1 2 3 4 5 6 7 8 9

VIDEO SIGNAL PATH

AUDIO SIGNAL PATH

(EE)

R0714 5600

R0732 4700

R0731 100

LB0701 VLP0147

R0713 0

R0740 470:EG/B/EC 270:EE

C0724 220P: EG/EC/EE 330P:B

R0717 470

R0711 180

R0745 3.3M

C0707 50V2.2

T0701 EVQ5EC082P:EG/EC EVQ5EC083P:B EVQ5EC081P:EE

R0729 10K (EG/B/EC)

R0730 10K (EG/EC)

R0701 100K (B)

(B) R0728 0

(EE) R0709 100K

R0727 0

C0719 0.1

C0708 50V 0.47

C0717 33P

R0742 150

Q0702 2SD601A (AMP)

R0741 220

C0721 120P:EG/EC 82P:B 56P:EE

R0743 1K

PK0701

DU7601-19	SW1	1
DU7601-20	SW2	2
DU7601-21	———	3
DU7601-22	SIF/QPSK	4
DU7601-23	AFC S-CURVE	5
DU7601-24	TUNER VIDEO	6
DU7601-25	TUNER 5V	7
DU7601-26	———	8
DU7601-27	GND	9

TO POWER SUPPLY/ RF SECTION DU7601 (D-10)

1.6 2.4 2.6 5.0

IC0701 LA75503

3.1 2.4 1.6 3.0 2.7 2.2 3.3 4.3 4.3 1.8 0 1.3

BPF, BPF, LIM AMP, FM DET, DEEMPHP, AMP SW, EQ AMP, TRAP, S PLL, FIL CONT, LPF, VCO, FLL, AGC, AFT AMP, VIDEO DET, APC DET, 1ST SIF DET, VIF AMP, IF AGC, 1ST AMP, RF AGC

2.6 2.4 2.2 3.3 2.8 2.8 5.0 1.6 0.1 4.0 2.4

D0702 0

C0701 1

R0705 4700

R0708 10K

VR0701 10KB

R0707 39K

C0702 1000P

C0703 1

C0713 6V330

C0714 1

C0704 0.033

R0719 4700

C0712 0.1

X0704 VLF1493:EG/EC VLF1495:B VLF1497:EE

L0701 0.27u:EG/EC/EE 0.22u:B

(EE) X0702 VLF1431

X0701 VLF1416:EG/EC VLF1417:B VLF1430:EE

(EG/EC) K0701 56P

C0710 0.01

L0703 2.2u: EG/EC/EE 1.8u:B

R0725 100

C0715 3P: EG/EC/EE 12P:B

PP0701 (TO TUNER UNIT)

4MHz	1
AGC	2
IF	3
GND	4

C0711 16V22

R0715 22K

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE

TV DEMODULATOR PACK SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

Ⓡ :TO POWER SUPPLY/RF SECTION
Ⓢ :TO SYSTEM CONTROL & SERVO SECTION
Ⓐ :TO Hi-Fi AUDIO SECTION

Ⓡ PS 5V
Ⓢ PAL EP Ⓗ
Ⓢ D.A REC Ⓗ
Ⓢ ET REC Ⓗ
Ⓢ MUTE Ⓗ
Ⓐ AUDIO OUT (N)
Ⓐ AUDIO IN (N)
Ⓡ TUNER AUDIO (N)
Ⓢ TRACKING ENV.
Ⓢ HEAD SW

P5001 (TO CYLINDER UNIT)
LP/EP R 1
LP/EP COM 2
LP/EP L 3
SP R 4
SP COM 5
SP L 6
GND (HA) 7
AUDIO HEAD L 8
AUDIO HEAD COM 9
AUDIO HEAD R 10

Ⓐ AUDIO HEAD R
Ⓐ AUDIO HEAD COM
Ⓐ AUDIO HEAD L
Ⓢ BIAS Ⓛ

P4002 (TO A/C HEAD)
AUDIO ERASE IN 1
GND (NA) 2
A.HEAD (R) 3
A.HEAD (W) 4
CTL HEAD (-) 5
CTL HEAD (+) 6

Ⓢ CTL HEAD (+)
Ⓢ CTL HEAD (-)
Ⓢ SHORT DET Ⓛ
Ⓢ FULL ERASE Ⓗ
Ⓢ V.EE Ⓛ

P4003 (TO FULL ERASE HEAD)
FULL ERASE GND 1
FULL ERASE IN 2

Ⓡ BIAS 5V
Ⓢ S-VHS Ⓗ
Ⓐ GND (A)
Ⓡ GND
Ⓡ GND (HA)
Ⓡ GND (HA2)
Ⓡ GND (SYS)
Ⓢ LP Ⓗ

R4081 7500
C4018 220P
T4002 EQQ7QF026P
C4019 0.15
C4021 4700P
R4082 3300
Q4002 2SD602A (OSC)
L4002 68u
C4020 10V47
C4022 0.022
QR4005 UN2111 (D.A.REC Ⓗ:OFF)
C4017 100P
QR4003 XN1215 (PAL EP Ⓗ:ON)
R4084 4700
Q4003 2SD1149 (PB:ON)
R4085 2200
Q4004 2SD601A (PB:ON)
R4087 4700
C4023 10V22
R4086 6800
Q4001 2SB710A (BIAS Ⓛ:ON)
R4088 4700
C4024 16V10
T4001 EQQ7QF025P
C4029 0.022
C4027 2200P
R4091 6800
Q4006 2SD602A (OSC)
L4003 68u
C4028 6V47
C4026 0.022
R4090 4700
Q4005 2SB710A (FULL ERASE DRIVE)
C4025 10V22
R4089 6800
QR3005 UN2113 (VHS:ON)
QR3003 UN2213 (VHS:ON)
R3005 3300
L3002 82u
LB4005 J0JBC0000070
QR3007 UN2211 (PB:ON)
QR3006 UN2113 (PB:ON)
R3512 1K

IC3002 C1AB00001340
C3041 4.7
C3040 4.7
GND
VCC
L3009 0
R3035 0
C3043 16V10
C3044 0.1

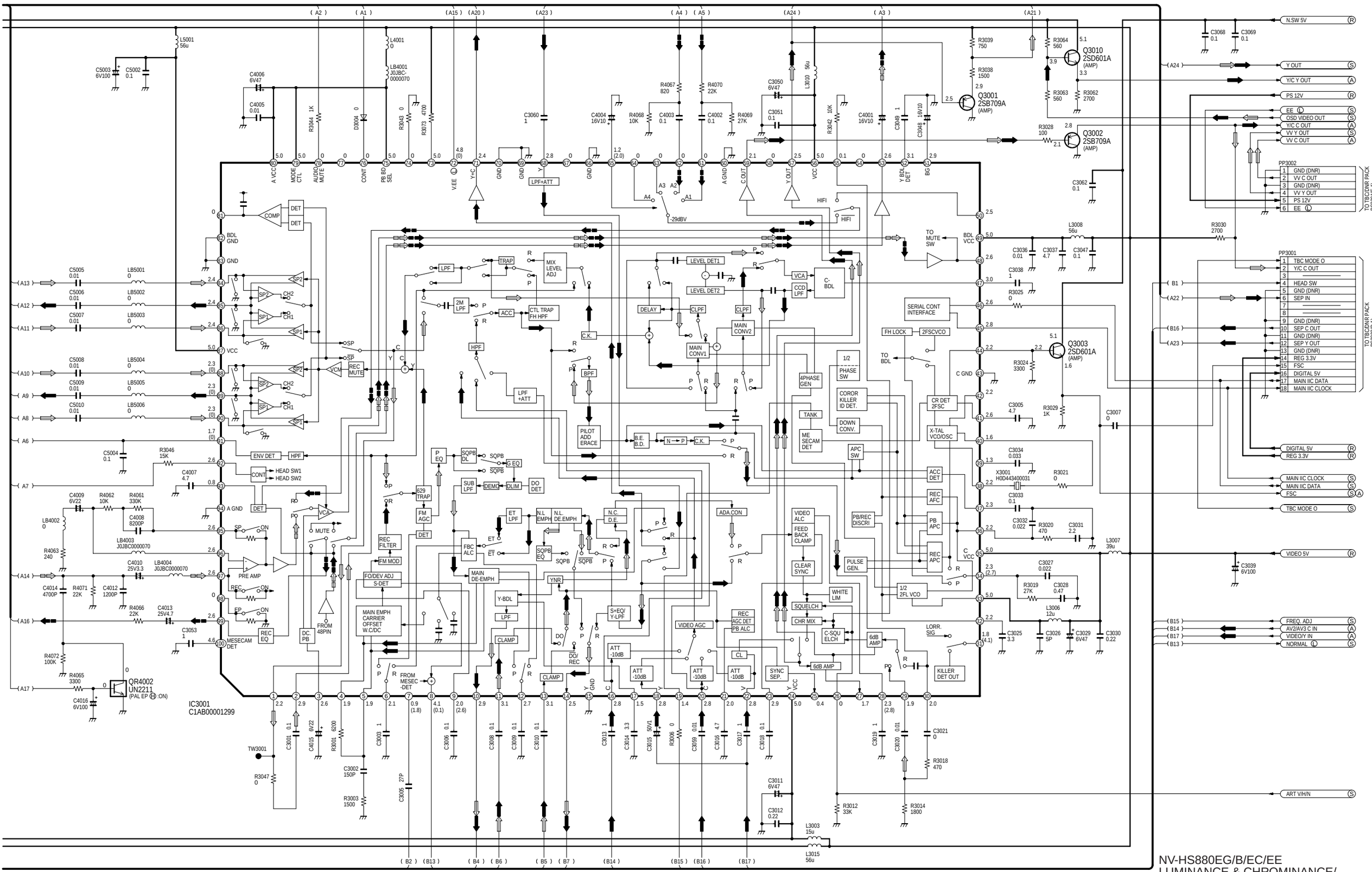
IC3502 M52065FP
C3513 4.7
C3510 4.7
C3515 4.7
C3512 4.7
C3521 4.7
C3511 4.7
C3518 0.01
L3019 0
L3018 0
L3017 0
R3074 0
R3076 0
C3063 0
R3503 1200
Q3501 2SB709A (AMP)

C3517 0.1
Q3007 2SD601A (AMP)
C3058 150P
R3054 0
L3013 180u
R3053 56
R3055 560
C3057 47P
R3051 0
R3022 3900
C3509 4.7
R3513 390
R3511 1200
R3510 390K
Q3502 2SB709A (AMP)

IC3501 AN3293S
SUB EMPHASIS
LOGIC
GND
VCC
SP
LP
PB
REC
C3508 270P
R3509 1K
C3505 270P
R3506 3300
R3507 1K
R3508 470
R3505 3300
C3504 270P
C3506 82P
C3503 220P
R3504 1500
C3501 4.7
C3502 4.7
C3507 6V47
C3516 0.1
R3501 2200
R3502 1500

NOTE:THE MEASUREMENT MODE OF THE DC VLOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.(SP MODE)

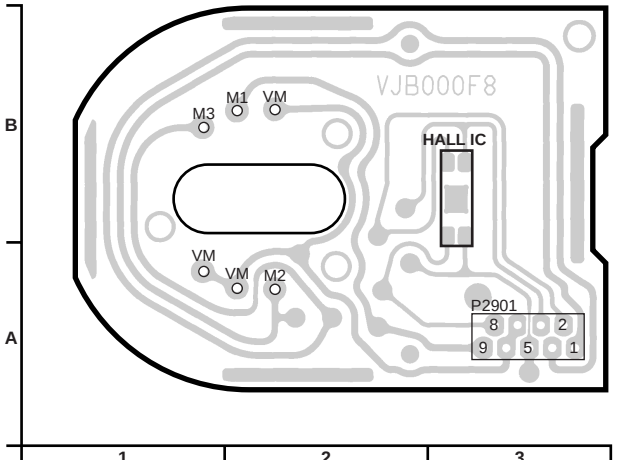


NV-HS930EG/B/EC/EE LUMINANCE & CHROMINANCE/AUDIO SECTION SCHEMATIC DIAGRAM

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-HS880EG/B/EC/EE
LUMINANCE & CHROMINANCE/
AUDIO SECTION SCHEMATIC DIAGRAM

(VEM0715)



CYLINDER STATOR UNIT	
Integrated Circuit	
HALL IC	B-3
Connector	
P2901	A-3

ADDRESS INFORMATION

NV-HS880EG/B/EC/EE
CYLINDER STATOR UNIT